

Compilation of Changes to the CPC Scheme Between 2026.05 and 2026.08

Presentation Details

Entries for new symbols and headings:	<i>Black text in italics</i>
Entries for existing symbols and headings	
—text insertions:	<i>Green text in italics</i>
—text deletions:	Red strikethrough text with grey background
Entries for deleted symbols and headings:	Black strikethrough text

- In cases when the originating project cannot be found, "Unknown" is given for the Project information.
- Projects ending in "-F" indicate finalisation after reclassification was completed.

Project: RP12330-F (A01K)

- M A01K 67/30 • Rearing or breeding invertebrates
- WARNING
~~Group A01K 67/30 is impacted by reclassification into groups A01K 67/31, A01K 67/34, A01K 67/36 – A01K 67/368, A01K 67/60 and A01K 67/68. All groups listed in this Warning should be considered in order to perform a complete search.~~
- M A01K 67/31 • • Arrangements for releasing thereof into the environment
- WARNING
~~Group A01K 67/31 is incomplete pending reclassification of documents from group A01K 67/30. Groups A01K 67/30 and A01K 67/31 should be considered in order to perform a complete search.~~
- M A01K 67/34 • • Insects (genetically modified insects [A01K 67/68](#))
- WARNING
~~Groups A01K 67/34, A01K 67/36, A01K 67/362, A01K 67/364, A01K 67/366 and A01K 67/368 are incomplete pending reclassification of documents from group A01K 67/30. All groups listed in this Warning should be considered in order to perform a complete search.~~
- M A01K 67/35 • • • Silkworms
- WARNING
~~Group A01K 67/35 is impacted by reclassification into group A01K 67/68. Groups A01K 67/35 and A01K 67/68 should be considered in order to perform a complete search.~~
- M A01K 67/60 • New or modified breeds of invertebrates
- WARNING
~~Group A01K 67/60 is incomplete pending reclassification of documents from group A01K 67/30. Groups A01K 67/30 and A01K 67/60 should be considered in order to perform a complete search.~~
- U A01K 67/61 • • Genetically modified invertebrates, e.g. transgenic or polyploid
- NOTE
 {In group [A01K 67/61](#), it is desirable to add the indexing codes relating to transgenic animals. In group [A01K 67/61](#), it is desirable to add the indexing codes relating to animals characterised by their purpose.}

- U A01K 67/65 · · · Genetically modified arthropods
- M A01K 67/68 · · · · Genetically modified insects

WARNING

Group A01K 67/68 is incomplete pending reclassification of documents from groups A01K 67/30 and A01K 67/35.

Groups A01K 67/30, A01K 67/35 and A01K 67/68 should be considered in order to perform a complete search.

Project: MP12950 (A61B)

- U A61B 1/00** **Instruments for performing medical examinations of the interior of cavities or tubes of the body by visual or photographic inspection, e.g. endoscopes (examination of body cavities or body tracts using ultrasonic, sonic or infrasonic waves [A61B 8/12](#); endoscopic instruments for taking cell samples or for biopsy [A61B 10/04](#)); Illuminating arrangements therefor (for the eyes [A61B 3/00](#))**
- M A61B 1/267 · for the respiratory tract, e.g. laryngoscopes; *or* bronchoscopes
- M A61B 1/273 · for the upper alimentary canal, e.g. oesophagoscopes; *or* gastroscopes
- M A61B 1/307 · for the urinary organs, e.g. urethrosopes; *or* cystoscopes
- M A61B 1/31 · for the rectum, e.g. proctoscopes, sigmoidoscopes {, colonoscopes} *or sigmoidoscopes*
- U A61B 1/313 · for introducing through surgical openings, e.g. laparoscopes
- M A61B 1/317 · · for bones or joints, e.g. osteoscopes; *or* arthroscopes
- U A61B 3/00** **Apparatus for testing the eyes; Instruments for examining the eyes (eye inspection using ultrasonic, sonic or infrasonic waves [A61B 8/10](#))**
- U A61B 3/10 · Objective types, i.e. instruments for examining the eyes independent of the patients' perceptions or reactions
- M A61B 3/103 · · for determining refraction, e.g. refractometers; *or* skiascopes
- U A61B 8/00** **Diagnosis using ultrasonic, sonic or infrasonic waves**
- U A61B 8/13 · Tomography ([A61B 8/10](#), [A61B 8/12](#) take precedence)
- M A61B 8/14 · · ~~Echo-tomography~~ *Echotomography*

Project: MP12950 (A61D)

- U A61D 1/00** **Surgical instruments for veterinary use**
- M A61D 1/12 · Instruments for removing foreign bodies from animals' throats, oesophagus; or stomachs ~~(instruments for removing foreign bodies from the human body [A61B 17/50](#))~~
- M A61D 7/00** **Devices or methods for introducing solid, liquid; or gaseous remedies or other materials into or onto the bodies of animals (for reproduction or fertilisation [A61D 19/00](#) {; ~~devices for implanting pellets, radon seeds or the like [A61M 37/0069](#)~~)**
- M A61D 9/00** **Bandages, poultices; *or* compresses specially adapted to veterinary purposes ~~(fetlock-joint protecting rings [A01K 13/00](#))~~**

Project: MP12950 (A61F)

- U A61F 2/00** **Filters implantable into blood vessels; Prostheses, i.e. artificial substitutes or replacements for parts of the body; Appliances for connecting them with the body; Devices providing patency to, or preventing collapsing of, tubular structures of the body, e.g. stents (dental prostheses [A61C 13/00](#); artificial kidneys [A61M 1/14](#); artificial hearts [A61M 60/00](#))**
- U A61F 2/02 · Prostheses implantable into the body
- U A61F 2/30 · · Joints
- M A61F 2/44 · · · for the spine, e.g. vertebrae; *or* spinal discs
- M A61F 2/48 · · Operating or control means, e.g. from outside the body; *or* control of sphincters
- U A61F 2/50 · Prostheses not implantable in the body {(closure means for urethra or rectum or for artificial body openings therefor [A61F 2/0004](#))}
- M A61F 2/76 · · Means for assembling, fitting or testing prostheses, e.g. for measuring or balancing, ~~{e.g. alignment means}~~
- M A61F 2/78 · · Means for protecting prostheses or for attaching them to the body, e.g. bandages, harnesses, straps; *or* stockings for the limb stump
- U A61F 5/00** **Orthopaedic methods or devices for non-surgical treatment of bones or joints; Nursing devices (bandages, dressings or absorbent pads [A61F 13/00](#)) {; Anti-rape devices}**
- U A61F 5/44 · Devices worn by the patient for reception of urine, faeces, catamenial or other discharge (absorbent pads, e.g. sanitary towels, [A61F 13/15](#); drainage appliances for wounds [A61M 27/00](#)); Colostomy devices
- M A61F 5/443 · · having {adhesive seals for securing to the body, e.g. of} hydrocolloid type seals, e.g. gels, starches; *or* karaya gums
- U A61F 5/445 · · Colostomy, {ileostomy or urethrostomy} devices ([A61F 5/441](#), [A61F 5/442](#), [A61F 5/443](#) take precedence)
- M A61F 5/449 · · · Body securing means, e.g. belts; *or* garments
- M A61F 13/49 · · · specially adapted to be worn around the waist, e.g. diapers; *or* nappies
- U A61F 15/00** **Auxiliary appliances for wound dressings; Dispensing containers for dressings or bandages {(packaging of wound dressings [A61F 13/00072](#))}**
- M A61F 15/02 · Devices for cutting bandages of any kind, e.g. shears; *or* cast-cutting saws

Project: MP12950 (A61G)

- M A61G** **TRANSPORT, PERSONAL CONVEYANCES; OR ACCOMMODATION SPECIALLY ADAPTED FOR PATIENTS OR DISABLED PERSONS (appliances for aiding patients or disabled persons to walk [A61H 3/00](#)); OPERATING TABLES OR CHAIRS; CHAIRS FOR DENTISTRY; FUNERAL DEVICES (embalming corpses [A01N 1/00](#))**

WARNINGS

1. The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:

A61G 3/04	covered by	A61G 3/02
A61G 7/043	covered by	A61G 7/05
A61G 7/12	covered by	A61G 7/10
A61G 7/14	covered by	A61G 7/10
A61G 15/04	covered by	A61G 15/02
A61G 15/06	covered by	A61G 15/02

[A61G 17/013](#) covered by [A61G 17/00](#)

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

U A61G 1/00

Stretchers

M A61G 1/003

- with facilities for picking up patients or disabled persons, e.g. break-away type or using endless belts ~~(({devices in general for lifting disabled persons A61G 7/10})~~

M A61G 1/04

- Parts, details or accessories, e.g. head-, foot-, or like rests specially adapted for stretchers

M A61G 5/00

Chairs or personal conveyances specially adapted for patients or disabled persons, e.g. wheelchairs (~~{chairs with toilet conveniences A47K 11/04; }~~ devices enabling patients or disabled persons to operate an apparatus or device not forming part of the body [A61F 4/00](#); ~~{running gear or propulsion features B60K; }~~ bicycles specially adapted for disabled riders [B62K 3/16](#) ~~;~~ ~~Invalid chairs having removable seats specially adapted to be transferred with the invalid to a vehicle and support the invalid during use of the vehicle A61G 3/02~~)

Project: RP11670-F (A61K)

U A61K 36/00

Medicinal preparations of undetermined constitution containing material from algae, lichens, fungi or plants, or derivatives thereof, e.g. traditional herbal medicines ~~(({antigens from pollen A61K 39/36})~~

NOTE

In this group, common names of plants, where given, are presented in brackets following their corresponding Latin names.

U A61K 36/06

- Fungi, e.g. yeasts

M A61K 36/07

- • Basidiomycota, e.g. Cryptococcus

WARNING

Group A61K 36/07 is impacted by reclassification into groups A61K 36/071 and A61K 36/078.

Groups A61K 36/07, A61K 36/071 and A61K 36/078 should be considered in order to perform a complete search.

M A61K 36/071

- • {Agaricus}

WARNING

Group A61K 36/071 is incomplete pending reclassification of documents from group A61K 36/07.

Groups A61K 36/07 and A61K 36/071 should be considered in order to perform a complete search.

M A61K 36/078

- • {Psilocybe}

WARNING

Group A61K 36/078 is incomplete pending reclassification of documents from group A61K 36/07.

Groups A61K 36/07 and A61K 36/078 should be considered in order to perform a complete search.

- M A61K 36/18
- Magnoliophyta (angiosperms)
- WARNING
Group A61K 36/18 is impacted by reclassification into groups A61K 36/348, A61K 36/3482, A61K 36/3486, A61K 36/577, A61K 36/5775, A61K 36/5777 and A61K 36/742.
All groups listed in this Warning should be considered in order to perform a complete search.
- M A61K 36/185
- Magnoliopsida (dicotyledons)
- WARNING
Group A61K 36/185 is impacted by reclassification into groups A61K 36/348, A61K 36/3482, A61K 36/3486, A61K 36/577, A61K 36/5775, A61K 36/5777 and A61K 36/742.
All groups listed in this Warning should be considered in order to perform a complete search.
- M A61K 36/348
- • {Cannabaceae}
- WARNING
Groups A61K 36/348, A61K 36/3482 and A61K 36/3486 are incomplete pending reclassification of documents from groups A61K 36/18 and A61K 36/185.
All groups listed in this Warning should be considered in order to perform a complete search.
- M A61K 36/577
- • {Malvaceae (Mallow family)}
- WARNING
Groups A61K 36/577, A61K 36/5775 and A61K 36/5777 are incomplete pending reclassification of documents from groups A61K 36/18 and A61K 36/185.
All groups listed in this Warning should be considered in order to perform a complete search.
- M A61K 36/74
- • Rubiaceae (Madder family)
- WARNING
Group A61K 36/74 is impacted by reclassification into group A61K 36/742.
Groups A61K 36/74 and A61K 36/742 should be considered in order to perform a complete search.
- M A61K 36/742
- • • {Coffea, e.g. coffee}
- WARNING
Group A61K 36/742 is incomplete pending reclassification of documents from groups A61K 36/18, A61K 36/185 and A61K 36/74.
All groups listed in this Warning should be considered in order to perform a complete search.

Project: RP11946 (A61M)

- C A61M 5/00** Devices for bringing media into the body in a subcutaneous, intra-vascular or intramuscular way; Accessories therefor, e.g. filling or cleaning devices, arm-rests (~~vaccination appliances for veterinary use A61D 1/025~~); tube connectors, tube couplings, valves or branch units, specially adapted for medical use [A61M 39/00](#); containers specially adapted for medical or pharmaceutical purposes [A61J 1/00](#); ~~combinations of vial and syringe for mixing or transferring their contents A61J 1/20; holders for containers for collecting, storing or administering blood or medical fluids A61J 1/16~~)
- WARNING**
Group [A61M 5/00](#) is impacted by reclassification into groups [A61M 5/009](#) and [A61M 5/0091](#).
Groups [A61M 5/00](#), [A61M 5/009](#) and [A61M 5/0091](#) should be considered in order to perform a complete search.
- M A61M 5/002** • {Packages specially adapted therefor, e.g. *packages* for syringes or needles; or kits for diabetics (~~needle protection, e.g. caps, A61M 5/3202; for sharps A61B 50/3001~~)}
- M A61M 5/008** • {Racks for supporting syringes or needles (~~A61M 5/001 takes precedence~~)}
- N A61M 5/009** • {*Electronic or electro-mechanical add-on modules*}
- WARNING**
Groups [A61M 5/009](#) and [A61M 5/0091](#) are incomplete pending reclassification of documents from groups [A61M 5/00](#), [A61M 2005/3126](#), [A61M 5/3155](#), [A61M 5/31551](#) and [A61M 5/31553](#).
All groups listed in this Warning should be considered in order to perform a complete search.
- N A61M 5/0091** • • {*Rotatable add-on modules*}
- U A61M 5/14** • Infusion devices, e.g. infusing by gravity; Blood infusion; Accessories therefor
- U A61M 5/1407** • • {Infusion of two or more substances}
- M A61M 5/1408** • • • {in parallel, e.g. *manifolds, by manifolds or with* sequencing valves (~~access sites A61M 39/02; tube connectors A61M 39/10~~)}
- M A61M 5/1409** • • • {in series, e.g. *reconstitution systems with a* first substance passing through *a* container holding *a* second substance, ~~e.g. reconstitution systems (needle sets A61M 5/162)~~}
- M A61M 5/1411** • • {Drip chambers (~~A61M 5/162, A61M 5/1689, A61M 5/40~~ take precedence)}
- U A61M 5/142** • • Pressure infusion, e.g. using pumps
- NOTE**
In this group, the following expression is used with the meaning indicated:
- "pressure infusion" includes powered injection working at a controlled rate
- U A61M 5/14244** • • • {adapted to be carried by the patient, e.g. portable on the body}
- U A61M 5/14248** • • • • {of the skin patch type}
- T A61M 2005/14252** • • • • • {with needle insertion means}
- D A61M 2005/14256** • • • • • • {with means for preventing access to the needle after use}
<administratively transferred to [A61M 2005/1426](#) ADD and [A61M 2005/14252](#) ADD>
- T A61M 2005/1426** • • • • • • {with means for preventing access to the needle after use}
- M A61M 5/145** • • • using pressurised reservoirs, e.g. *pressurised* by means of pistons
- M A61M 5/148** • • • • flexible, ~~e.g. independent bags~~ ([A61M 5/155](#) takes precedence)

- M A61M 5/152 pressurised by contraction of elastic reservoirs ~~{{containers for dispensing contents by contraction of an elastic bag provided therein, in general B65D 83/7711}}~~
- U A61M 5/158 . . Needles {for infusions; Accessories therefor, e.g. for inserting infusion needles, or for holding them on the body}
- M A61M 5/1582 . . . {~~Double~~ Multi-lumen needles}
- M A61M 2005/1588 . . . {having means for monitoring, controlling or visual inspection, e.g. for patency check; *or for* avoiding extravasation}
- M A61M 5/162 . . Needle sets, i.e. connections by puncture between reservoir and tube ~~}; Connections between reservoir and tube (in jet-action syringes A61M 5/30; connectors for tubes having sealed ends and a needle for piercing them A61M 39/14)}~~
- M A61M 5/165 . . Filtering accessories, e.g. blood filters, filters for infusion liquids (~~{A61M 1/14}, A61M 1/34, {A61M 1/3627, A61M 5/36 A61M 1/3679, A61M 1/3687}~~ take precedence; ~~{needle sets with incorporated air inlet filters A61M 5/162}~~)
- M A61M 5/168 . . Means for controlling media flow to the body or for metering media to the body, e.g. drip meters, counters ~~}; Monitoring media flow to the body (flow control in general G05D 7/00)}~~
- M A61M 5/16804 . . . {Flow Active flow controllers}
- M A61M 5/16809 {by repeated filling and emptying of an intermediate volume ~~(pressure infusion using positive displacement pumps A61M 5/142)}~~
- U A61M 5/16813 {by controlling the degree of opening of the flow line}
- U A61M 5/16831 . . . {Monitoring, detecting, signalling or eliminating infusion flow anomalies (low-level float-valves causing cut-off A61M 5/40; indicating or recording presence, absence or direction of flow in general G01P 13/0066)}
- M A61M 5/16836 {by sensing tissue properties at the infusion site, e.g. for detecting infiltration ~~(detecting tissue temperature for diagnostic purposes A61M 39/0247)}~~
- D A61M 2005/16863 {Occlusion detection}
<administratively transferred to [A61M 5/16863](#)>
- N A61M 5/16863 {Occlusion detection}
- D A61M 2005/16868 {Downstream occlusion sensors}
<administratively transferred to [A61M 5/16863](#)>
- D A61M 2005/16872 {Upstream occlusion sensors}
<administratively transferred to [A61M 5/16863](#)>
- M A61M 5/16877 . . . {Adjusting Passive flow controllers; Devices for setting a flow rate (*clamp-type valves A61M 39/28*)}
- M A61M 5/16881 {Regulating valves ~~(on-off valves, e.g. clamps A61M 39/28)}~~
- M A61M 5/172 electrical or electronic ~~{{A61M 5/16804, A61M 5/16831 take precedence}}~~
- M A61M 5/1723 {using feedback of body parameters, e.g. blood- sugar; *or* pressure ~~(measurement of body parameters A61B 5/00)}~~
- U A61M 5/178 . . Syringes
- M A61M 5/19 . . . having more than one chamber ~~}; e.g. including a manifold coupling two parallelly aligned syringes through separate channels to a common discharge assembly (surgical glue applicators A61B 17/00491)}~~
- M A61M 5/20 . . . Automatic syringes, e.g. with automatically actuated piston rod, with automatic needle injection, filling automatically ([A61M 5/142](#) ~~}; takes A61M 5/46~~ take precedence; ~~{hypodermic projectiles F42B 12/54}~~)

- D A61M 2005/206 . . . {~~With automatic needle insertion~~
<administratively transferred to [A61M 5/206](#)>
- N A61M 5/206 . . . {with automatic needle insertion}
- U A61M 2005/2093 . . . {including concentration setting means}
- M A61M 5/24 . . Ampoule syringes, i.e. syringes with needle for use in combination with replaceable ampoules or ~~carpules~~*cartridges*, e.g. automatic-~~{(ampoules or carpules A61J 1/06)}~~
- U A61M 5/30 . . Syringes for injection by jet action, without needle, e.g. for use with replaceable ampoules or carpules
- U A61M 2005/3022 . . . {Worn on the body, e.g. as patches (pressure infusion of the skin patch type [A61M 5/14248](#))}
- C A61M 5/31 . . Details
WARNING
Group A61M 5/31 is impacted by reclassification into group [A61M 5/3147](#). Groups [A61M 5/31](#) and [A61M 5/3147](#) should be considered in order to perform a complete search.
- C A61M 2005/3125 . . . {~~specific display~~*Display* means, e.g. to indicate dose setting}
WARNING
Group [A61M 2005/3125](#) is impacted by reclassification into group [A61M 5/3147](#). Groups [A61M 2005/3125](#) and [A61M 5/3147](#) should be considered in order to perform a complete search.
- C A61M 2005/3126 {~~Specific display means~~ related to dosing}
WARNING
Group [A61M 2005/3126](#) is impacted by reclassification into groups [A61M 5/3155](#), [A61M 5/009](#) and [A61M 5/0091](#). All groups listed in this Warning should be considered in order to perform a complete search.
- M A61M 5/3129 . . . {Syringe barrels (~~A61M 5/3205~~ and, [A61M 5/50](#) take precedence)}
- C A61M 5/3137 {~~Specially designed~~*with* finger grip means, e.g. for easy manipulation of the syringe rod}
WARNING
Group [A61M 5/3137](#) is impacted by reclassification into group [A61M 5/3147](#). Groups [A61M 5/3137](#) and [A61M 5/3147](#) should be considered in order to perform a complete search.
- C A61M 2005/3139 {Finger grips not integrally formed with the syringe barrel, e.g. using adapter with finger grips}
WARNING
Group [A61M 2005/3139](#) is impacted by reclassification into group [A61M 5/3147](#). Groups [A61M 2005/3139](#) and [A61M 5/3147](#) should be considered in order to perform a complete search.
- U A61M 5/3146 . . . {Priming, e.g. purging, reducing backlash or clearance}

- N A61M 5/3147 . . . {Syringe accessories}
- WARNING
Group [A61M 5/3147](#) is incomplete pending reclassification of documents from groups [A61M 5/31](#), [A61M 2005/3125](#), [A61M 5/3137](#) and [A61M 2005/3139](#).
All groups listed in this Warning should be considered in order to perform a complete search.
- U A61M 5/315 . . . Pistons; Piston-rods; Guiding, blocking or restricting the movement of the rod {or piston}; Appliances on the rod for facilitating dosing {; Dosing mechanisms}
- U A61M 5/31533 {Dosing mechanisms, i.e. setting a dose (administrating mechanisms [A61M 5/31565](#))}
- U A61M 5/31545 {Setting modes for dosing}
- U A61M 5/31548 {Mechanically operated dose setting member}
- C A61M 5/3155 {by rotational movement of dose setting member, e.g. during setting or filling of a syringe}
- WARNING
Group [A61M 5/3155](#) is incomplete pending reclassification of documents from group [A61M 2005/3126](#). Group [A61M 5/3155](#) is also impacted by reclassification into groups [A61M 5/009](#) and [A61M 5/0091](#).
All groups listed in this Warning should be considered in order to perform a complete search.
- C A61M 5/31551 {including axial movement of dose setting member}
- WARNING
Group [A61M 5/31551](#) is impacted by reclassification into groups [A61M 5/009](#) and [A61M 5/0091](#).
Groups [A61M 5/31551](#), [A61M 5/009](#) and [A61M 5/0091](#) should be considered in order to perform a complete search.
- C A61M 5/31553 {without axial movement of dose setting member}
- WARNING
Group [A61M 5/31553](#) is impacted by reclassification into groups [A61M 5/009](#) and [A61M 5/0091](#).
Groups [A61M 5/31553](#), [A61M 5/009](#) and [A61M 5/0091](#) should be considered in order to perform a complete search.
- U A61M 5/31565 {Administration mechanisms, i.e. constructional features, modes of administering a dose (dosing mechanisms for setting a dose [A61M 5/31533](#))}
- M A61M 5/31576 {~~Constructional features;~~ ~~Constructional features or modes of drive mechanisms~~ Drive mechanisms or modes for piston rods}
- M A61M 5/31578 {~~based on axial translation, i.e. components directly operatively associated and axially moved with plunger rod~~the piston rod being moved by the axial movement of a component directly in contact with it}
- M A61M 5/3158 {performed by the component being manually operated or triggered by an axially moving actuator operated by user, e.g. an axially movable injection button}
- M A61M 5/31581 {performed by rotationally moving the component being manually operated or triggered by a rotating or pivoting actuator operated by user, e.g. an injection lever or handle}

- M A61M 5/31583 {~~based on rotational translation, i.e. movement of piston rod is caused by relative rotation between the user activated actuator and the piston rod~~ *the piston rod being moved by the rotational movement of a component directly in contact with it*}
- M A61M 5/31585 {~~performed by~~ *the component being manually operated or triggered by an axially moving actuator operated by user, e.g. an axially movable injection button*}
- M A61M 5/31586 {~~performed by rotationally moving or pivoted actuator~~ *the component being manually operated or triggered by a rotating or pivoting actuator operated by user, e.g. an injection lever or handle*}
- U A61M 5/31596 {comprising means for injection of two or more media, e.g. by mixing}
- D A61M 2005/31598 {~~having multiple telescopically sliding coaxial pistons encompassing volumes for components to be mixed~~
<administratively transferred to [A61M 5/31598](#)>
- N A61M 5/31598 {*having multiple telescopically sliding coaxial pistons encompassing volumes for components to be mixed*}
- M A61M 5/32 Needles; Details of needles pertaining to their connection with syringe or hub (infusion needles [A61M 5/158](#)); Accessories for bringing the needle into, or holding the needle on, the body ~~{{(A61M 5/42, A61M 5/46 take precedence; guide needles for catheters A61M 25/065)}~~; Devices for protection of needles ~~{{(apparatus specially adapted for cleaning or sterilising needles A61M 5/001)}~~
- C A61M 5/3202 {Devices for protection of the needle before use, e.g. caps ([A61M 5/50](#) takes precedence; ~~for infusion spikes A61M 5/1626~~; protectors for sharps [A61B 50/3001](#))}
- WARNING**
Group [A61M 5/3202](#) is impacted by reclassification into groups [A61M 5/32021](#), [A61M 5/32023](#), [A61M 5/320231](#), [A61M 5/320233](#), [A61M 5/320235](#), [A61M 5/32025](#), [A61M 5/320253](#), [A61M 5/320255](#), [A61M 5/32027](#) and [A61M 5/32029](#).
All groups listed in this Warning should be considered in order to perform a complete search.
- N A61M 5/32021 {Caps made of two or more materials}
- WARNING**
Group [A61M 5/32021](#) is incomplete pending reclassification of documents from groups [A61M 5/3202](#) and [A61M 5/3204](#).
Groups [A61M 5/3202](#), [A61M 5/3204](#) and [A61M 5/32021](#) should be considered in order to perform a complete search.
- N A61M 5/32023 {Caps having a secondary function besides protecting the needle, e.g. sealing the needle lumen or blocking injector activation}
- WARNING**
Groups [A61M 5/32023](#), [A61M 5/320231](#), [A61M 5/320233](#), [A61M 5/320235](#), [A61M 5/32025](#), [A61M 5/320253](#) and [A61M 5/320255](#) are incomplete pending reclassification of documents from groups [A61M 5/3202](#) and [A61M 5/3204](#).
All groups listed in this Warning should be considered in order to perform a complete search.
- N A61M 5/320231 {Means for removing the cap}
- N A61M 5/320233 {actuated by twisting}
- N A61M 5/320235 {actuated by pushing}

- N A61M 5/32025 {Preventing accidental removal of the cap}
- N A61M 5/320253 {Preventing premature or accidental actuation of the injector}
- N A61M 5/320255 {Preventing re-capping}
- N A61M 5/32027 {with electronic components}
- WARNING
Group [A61M 5/32027](#) is incomplete pending reclassification of documents from groups [A61M 5/3202](#) and [A61M 5/3204](#). Groups [A61M 5/3202](#), [A61M 5/3204](#) and [A61M 5/32027](#) should be considered in order to perform a complete search.
- N A61M 5/32029 {Caps made of two or more separable parts}
- WARNING
Group [A61M 5/32029](#) is incomplete pending reclassification of documents from groups [A61M 5/3202](#) and [A61M 5/3204](#). Groups [A61M 5/3202](#), [A61M 5/3204](#) and [A61M 5/32029](#) should be considered in order to perform a complete search.
- C A61M 5/3204 {Needle cap ~~remover~~~~removers~~, i.e. devices to dislodge protection cover from needle or needle hub, e.g. deshielding devices}
- WARNING
Group [A61M 5/3204](#) is impacted by reclassification into groups [A61M 5/32021](#), [A61M 5/32023](#), [A61M 5/320231](#), [A61M 5/320233](#), [A61M 5/320235](#), [A61M 5/32025](#), [A61M 5/320253](#), [A61M 5/320255](#), [A61M 5/32027](#) and [A61M 5/32029](#). All groups listed in this Warning should be considered in order to perform a complete search.
- U A61M 25/00 **Catheters; Hollow probes (dilators [A61M 29/00](#); {peritoneal catheters [A61M 1/285](#); tracheal tubes [A61M 16/04](#); for drainage [A61M 27/00](#); for uterus, vagina or rectum [A61M 31/00](#)}; for measuring or testing [A61B](#); {materials for catheters [A61L 29/00](#))**
- M A61M 25/0097 . {characterised by the hub (~~connectors [A61M 39/10](#)~~~~tube connectors or tube couplings [A61M 39/10](#)~~)}
- M A61M 39/00 **Tubes, tube connectors, tube couplings, valves, access sites or the like, specially adapted for medical use (for respiratory devices, e.g. tracheal tubes, [A61M 16/00](#); artificial heart valves [A61F 2/24](#))**
- WARNING
Not complete, see [A61J 1/14](#)
- U A61M 39/02 . Access sites
- M A61M 39/0208 . {Subcutaneous access sites ~~for injecting or removing fluids~~ (~~transcutaneous access sites [A61M 39/0247](#)~~; implantable infusion devices [A61M 5/14276](#); ~~transcutaneous access sites [A61M 39/0247](#)~~)}
- M A61M 39/0247 . {~~Semi-permanent or permanent transcutaneous or~~ *Transcutaneous or* percutaneous access sites to the inside of the body (~~peritoneal dialysis catheters [A61M 1/285](#); tracheostomy devices [A61M 16/0465](#); measuring pressure within the body [A61B 5/03](#); colostomy devices [A61F 5/445](#); gastrotomy feeding tubes [A61J 15/0015](#); means for fixing a feeding tube outside of the body [A61J 15/0053](#))}~~
- M A61M 39/10 . Tube connectors *or tube couplings*; ~~Tube couplings~~ {([A61M 39/02](#) takes precedence; ~~connecting needles to syringes or hubs [A61M 5/34](#); connecting catheter tubes to hubs [A61M 25/0014](#)~~)}

- D A61M 2039/1033 · · {Swivel nut connectors, e.g. threaded connectors, bayonet-connectors}
<administratively transferred to [A61M 39/1033](#)>
- N A61M 39/1033 · · {Swivel nut connectors, e.g. threaded connectors or bayonet-connectors}
- M A61M 39/1055 · · {Rotating or swivel joints ~~(in general F16L 27/00)~~}
- U A61M 39/22 · Valves or arrangement of valves {([A61M 39/02](#), [A61M 39/0247](#), [A61M 39/16](#) take precedence; regulating valves in infusion systems [A61M 5/16881](#); in devices worn by the patient for the reception of urine, faeces, catamenial or other discharge, or in colostomy devices [A61F 5/4405](#))}
- D A61M 2039/229 · · {Stopcocks}
<administratively transferred to [A61M 39/229](#)>
- N A61M 39/229 · · {Single-way cut-off valves}

Project: MP12952 (B25J)

- M B25J 5/00 **Manipulators mounted on wheels or on carriages ([B25J 1/00](#) takes precedence; ~~programme-controlled manipulators B25J 9/00~~ {; vehicle aspects B60, B62, e.g. remote-controlled steering for motor vehicles [B62D 1/24](#); control of position of vehicles [G05D 1/00](#)}; *program-controlled manipulators [B25J 9/00](#)*)**
- M B25J 13/00 **Controls for manipulators (~~programme controls B25J 9/16~~ *program controls [B25J 9/16](#)*)**

Project: RP12424 (B31B)

- M B31B **MAKING CONTAINERS OF PAPER, CARDBOARD OR MATERIAL WORKED IN A MANNER ANALOGOUS TO PAPER (making wound articles, e.g. wound tubes, [B31C](#); combined making and filling [B65B](#))**

NOTE

In this subclass, the following terms or expressions are used with the ~~meaning~~ *meanings* indicated:

- "rigid or semi-rigid containers" includes:
 - containers not deformed by, or not taking-up the shape of, their contents;
 - containers adapted to be temporarily deformed to expel their contents;
 - pallets;
 - trays;
- "flexible containers" includes:
 - containers deformed by, or taking-up the shape of, their contents;
 - containers adapted to be permanently deformed to expel their contents.
- *{"mandrel" and "plunger" is sometimes used interchangeably in the art. Care should be taken to note that when the device is moving through folding dies, it is a "plunger", otherwise, the device is a "mandrel".}*

- U B31B 70/00 **Making flexible containers, e.g. envelopes or bags**

NOTES

1. Processes or apparatus for making both flexible containers and rigid or semi-rigid containers are classified in group [B31B 50/00](#).
2. In this group, it is desirable to add the indexing codes of groups [B31B 2150/00](#) - [B31B 2170/00](#).

- U B31B 70/001 · {Shaping, other than by folding, sheet material under pressure}

- a. elements, other than containers, for covering, protecting, stiffening or holding together articles or materials to be stored or transported;
- b. packaging materials of special type or form not provided for in other subclasses;
- "packages" includes:
 - a. combinations of containers or packaging elements with articles or materials to be stored or transported;
 - b. articles joined together for convenience of storage or transport;
- "paper" includes materials, e.g. cardboard, plastic sheet materials, laminated materials or metal foils, worked in a manner analogous to paper;
- "large containers", in groups [B65D 88/00](#) or [B65D 90/00](#), means containers having about the size of containers used in container traffic, sometimes referred to as freight, forwarding or "ISO" [International Organization for Standardization] containers or larger containers.

~~6-7~~. Tamper-indicating means for containers or closures are classified in the group appropriate to the type of container or closure, e.g. ~~{[B65D 5/42](#),~~ [B65D 5/54](#), [B65D 17/00](#), [B65D 27/30](#), [B65D 27/34](#), [B65D 33/34](#), [B65D 41/32](#), [B65D 47/36](#), [B65D 49/12](#), [B65D 51/20](#), [B65D 55/06](#).

~~7-8~~. {In this subclass, the indexing codes of ~~B65D 2519/00004-~~ ~~B65D 2519/00995~~ [B65D 2519/00](#) should be added, if applicable.}

WARNINGS

1. The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:

B65D 5/34	covered by	B65D 5/325
B65D 5/35	covered by	B65D 5/325
B65D 5/355	covered by	B65D 5/0005
B65D 5/43	covered by	B65D 5/42
B65D 5/462	covered by	B65D 5/46008 - B65D 5/46032
B65D 5/465	covered by	B65D 5/46008 - B65D 5/46032
B65D 5/468	covered by	B65D 5/4608
B65D 5/472	covered by	B65D 5/46048
B65D 5/475	covered by	B65D 5/46008
B65D 5/478	covered by	B65D 5/46056
B65D 5/4805 - B65D 5/489	covered by	B65D 5/48002
B65D 5/49 - B65D 5/499	covered by	B65D 5/48024
B65D 5/63	covered by	B65D 5/72
B65D 6/00 - B65D 6/40	covered by	B65D 7/00 , B65D 9/00 , B65D 11/00 , B65D 15/00
B65D 8/00 - B65D 8/22	covered by	B65D 7/00 , B65D 9/00 , B65D 11/00 , B65D 15/00
B65D 19/22	covered by	B65D 19/0004
B65D 19/24	covered by	B65D 19/0004
B65D 19/26	covered by	B65D 19/0004
B65D 19/28	covered by	B65D 19/0004
B65D 19/30	covered by	B65D 19/0004
B65D 19/31	covered by	B65D 19/0004
B65D 19/32	covered by	B65D 19/0002 , B65D 19/0004
B65D 19/34	covered by	B65D 19/0004
B65D 21/024	covered by	B65D 21/0201
B65D 21/028	covered by	B65D 21/0204

B65D 21/032	covered by	B65D 21/0209
B65D 21/036	covered by	B65D 21/0217
B65D 25/26	covered by	B65D 81/02
B65D 30/00 - B65D 30/28	covered by	B65D 29/00 , B65D 31/00
B65D 33/17	covered by	B65D 33/1633
B65D 33/36	covered by	B65D 75/58
B65D 33/38	covered by	B65D 75/5861
B65D 35/48 - B65D 35/54	covered by	B65D 47/2018
B65D 39/18	covered by	B65D 39/00
B65D 41/01	covered by	B65D 41/00
B65D 43/03	covered by	B65D 43/00 + B65D 2543/00027
B65D 43/04	covered by	B65D 43/0214
B65D 43/10	covered by	B65D 43/0204
B65D 47/22	covered by	B65D 47/20
B65D 47/34	covered by	B05B 11/10
B65D 50/08	covered by	B65D 50/02
B65D 50/10	covered by	B65D 50/061
B65D 50/12	covered by	B65D 50/00
B65D 50/14	covered by	B65D 50/067
B65D 65/26 - B65D 65/32	covered by	B65D 75/58
B65D 65/34	covered by	B65D 75/66
B65D 65/36	covered by	B65D 75/58
B65D 71/52 - B65D 71/68	covered by	B65D 71/0003 - B65D 71/0077
B65D 75/60 - B65D 75/64	covered by	B65D 75/58
B65D 81/15	covered by	B65D 81/05
B65D 81/17	covered by	B65D 81/02
B65D 85/57	covered by	G11B 23/00
B65D 85/575	covered by	G11B 23/00
B65D 85/86	covered by	B65D 2585/86 , H05K 13/00
B65D 85/88	covered by	B65D 2585/88 , H01M 50/00
B65D 85/90	covered by	H10W , H05K 13/00

2. {In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.}

Project: MP12950 (C08L)

M C08L 89/00

Compositions of proteins; Compositions of derivatives thereof (~~foodstuff preparations A23J 3/00~~)

NOTE

In this group, C-Sets are used.

The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of [C08L](#).

Project: MP12950 (C09D)

M C09D 189/00 Coating compositions based on proteins; Coating compositions based on derivatives thereof (~~foodstuff preparations A23J 3/00~~)

NOTE

{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of [C09D](#)}

Project: MP12952 (D06F)

M D06F 21/00 Washing machines with receptacles, e.g. perforated, having a rotary movement, e.g. oscillatory movement (with receptacles serving both for washing and centrifugally separating water from the laundry [D06F 23/00](#), [D06F 25/00](#); ~~programme control aspects D06F 33/00~~; *program-control aspects D06F 33/00*)

M D06F 23/00 Washing machines with receptacles, e.g. perforated, having a rotary movement, e.g. oscillatory movement, the receptacle serving both for washing and for centrifugally separating water from the laundry (with further drying means [D06F 25/00](#); ~~programme control aspects D06F 33/00~~; *program-control aspects D06F 33/00*)

U D06F 34/00 Details of control systems for washing machines, washer-dryers or laundry dryers

NOTE

In this group, it is mandatory to add the indexing codes of groups [D06F 2101/00](#) - [D06F 2105/00](#).

M D06F 34/28 · Arrangements for ~~program~~*programme* selection, e.g. control panels therefor; Arrangements for indicating ~~program~~*programme* parameters, e.g. the selected ~~program~~*programme* or its progress

M D06F 2101/20 · Operation modes, e.g. delicate laundry washing ~~programs~~*programmes*, service modes or refreshment cycles

U D06F 2103/00 Parameters monitored or detected for the control of domestic laundry washing machines, washer-dryers or laundry dryers

M D06F 2103/68 · Operation mode; ~~Program~~*Programme* phase

Project: RP12414 (E05D)

U E05D 11/00 Additional features or accessories of hinges ({edge protecting devices [E06B 3/88](#)})

M E05D 11/0009 · {Templates for marking the position of fittings on wings or frames (~~implements for making doors, windows or frames E04F 21/003~~)}

U E05D 11/08 · Friction devices between relatively-movable hinge parts ([E05D 7/086](#) takes precedence)

U E05D 11/082 · · {with substantially radial friction, e.g. cylindrical friction surfaces}

M E05D 11/084 · · · {the friction depending on direction of rotation ~~or opening angle~~ of the hinge}

U E05D 15/00 Suspension arrangements for wings (arrangements of wings not characterised by the construction of the supporting means [E06B 3/32](#))

U E05D 15/48 · allowing alternative movements ({[E05D 15/0604](#) takes precedence } ; for vertically-sliding wings [E05D 15/22](#))

- M E05D 15/50
- • for opening at either of two opposite edges ~~{{(hinges or pivots of special construction to allow easy separation or connection of the parts at the hinge axis E05D 7/10; to allow easy detachment of the hinge from the wing or the frame E05D 7/12)}}~~
- D E05D 2700/00 **Hinges or other suspension devices especially for doors or windows**
- D E05D 2700/02
- Hinges with one pivot axis and one bearing surface
- D E05D 2700/04
- Hinges with one pivot axis and more than one bearing surface
- D E05D 2700/10
- Various door and window fittings, e.g. suspension devices for double hung windows or screens
- D E05D 2700/12
- Suspension devices for doors or windows movable in a direction perpendicular to their plane or pivotable about an axis being situated at a considerable distance from the edge of the wing by means of pivot arms

Project: RP12261 (F01B)

- M F01B
- MACHINES OR ENGINES, IN GENERAL OR OF POSITIVE-DISPLACEMENT TYPE, e.g. STEAM ENGINES (of rotary-piston or oscillating-piston type [F01C](#); of non-positive-displacement type [F01D](#); internal-combustion engines [F02B](#); combustion-product engine plants [F02G](#); machines or engines, other than of positive-displacement type, for liquids [F03B](#); positive-displacement engines driven by liquids [F03C](#); wind motors [F03D](#); positive-displacement machines for liquids [F04B](#); rotary-piston, or oscillating-piston, positive-displacement machines for liquids [F04C](#))**

NOTES

1. This subclass covers, with the exception of the matter provided for in subclasses [F01C](#) - [F01P](#):

- engines for elastic fluids, e.g. steam engines;
- engines for liquids and elastic fluids;
- machines for elastic fluids;
- machines for liquids and elastic fluids.

2. Attention is drawn to the note preceding class [F01](#), especially as regards the definitions of "steam" and "special vapour".

3. *{In this subclass, it is desirable to add the indexing codes of groups [F01B 2171/00](#) and [F01B 2250/00](#).}*

- U F01B 17/00 **Reciprocating-piston machines or engines characterised by use of uniflow principle**

- U F01B 17/02
- Engines
- M F01B 17/04
- • Steam engines

NOTE

{In this group the following indexing codes are used: [F01B 2170/0411](#) - [F01B 2170/0494](#)}

- D F01B 2170/00 **Steam engines, e.g. for locomotives or ships**
<administratively transferred to [F01B 2171/00](#) ADD>
- D F01B 2170/04
- To be deleted with administrative transfer to parent group
<administratively transferred to [F01B 2171/00](#) ADD>
- D F01B 2170/0405
- • To be deleted with administrative transfer to parent group
<administratively transferred to [F01B 2171/00](#) ADD>
- D F01B 2170/0411
- • • for locomotives
<administratively transferred to [F01B 2171/01](#) ADD>

- D F01B 2170/0417 . . . for locomobiles driven by small motors
<administratively transferred to [F01B 2171/02](#) ADD>
- D F01B 2170/0423 . . . Single-acting steam engines with 1, 2 or 3 cylinders
<administratively transferred to [F01B 2171/03](#) ADD>
- D F01B 2170/0429 . . . Double-acting high pressure machines
<administratively transferred to [F01B 2171/04](#) ADD>
- D F01B 2170/0435 . . . Compound machines with double or plural expansion; Auxiliaries driven by main engine
<administratively transferred to [F01B 2171/05](#) ADD>
- D F01B 2170/0441 . . . Compound engines with monolytic pistons in same cylinder
<administratively transferred to [F01B 2171/06](#) ADD>
- D F01B 2170/0447 . . . Machines with more than one piston in a cylinder and with counter moving pistons
<administratively transferred to [F01B 2171/07](#) ADD>
- D F01B 2170/0452 . . . Engines without connecting rods
<administratively transferred to [F01B 2171/08](#) ADD>
- D F01B 2170/0458 . . . Moving cylinders for steam engines, e.g. with telescopic cylinder arrangements
<administratively transferred to [F01B 2171/09](#) ADD>
- D F01B 2170/0464 . . . Oscillating cylinders for steam engines
<administratively transferred to [F01B 2171/11](#) ADD>
- D F01B 2170/047 . . . General arrangements for steam engines
<administratively transferred to [F01B 2171/00](#) ADD>
- D F01B 2170/0476 . . . Components or parts for steam engines
<administratively transferred to [F01B 2171/13](#) ADD>
- D F01B 2170/0482 . . . with toroidal cylinder space
<administratively transferred to [F01B 2171/12](#) ADD>
- D F01B 2170/0488 To be deleted with administrative transfer to parent group
<administratively transferred to [F01B 2171/12](#) ADD>
- D F01B 2170/0494 with fixed cylinder space
<administratively transferred to [F01B 2171/12](#) ADD>

N F01B 2171/00 - F01B 2171/00 **Indexing codes for special structural or operational features of steam engines**

N F01B 2171/00 ***Details or adaptations of steam engines, e.g. for locomotives or ships***

- N F01B 2171/01 . . . for locomotives
- N F01B 2171/02 . . . for locomobiles
- N F01B 2171/03 . . . Single-acting steam engines with 1, 2 or 3 cylinders
- N F01B 2171/04 . . . Double-acting high pressure steam engines
- N F01B 2171/05 . . . Compound steam engines with double or multiple expansion; Auxiliaries driven by main engine
- N F01B 2171/06 . . . Compound engines using monolithic piston in same cylinder
- N F01B 2171/07 . . . Steam engines with two or more pistons per cylinder with counter-moving pistons
- N F01B 2171/08 . . . Steam engines without connecting rods

- N F01B 2171/09 · Steam engines with moving cylinders, e.g. telescopic cylinder arrangements
- N F01B 2171/11 · Oscillating cylinder arrangements
- N F01B 2171/12 · with toroidal cylinder spaces
- N F01B 2171/13 · Components or parts for steam engines
- N F01B 2250/00 - **Indexing codes for accessories or auxiliary arrangements influencing the functioning of steam engines**
- M F01B 2250/00 **Accessories of steam engines; Arrangements or control devices of piston pumps, compressors without crank shafts or condensers for so far or condensers, insofar as they influence the functioning of the steam engines**
- M F01B 2250/003 · Apparatus for ~~control of~~controlling receiver or ~~condenser~~condenser pressure
- M F01B 2250/008 · Surface ~~condensers~~condensers for so far as they influence the functioning of the engine

Project: MP12952 (F02D)

- U F02D 27/00 **Controlling engines characterised by their being reversible**
- M F02D 27/02 · by performing a ~~program~~programme

Project: MP12243 (F15B)

- M F15B 11/00 **Servomotor systems without provision for follow-up action {; {Circuits therefor}(F15B 3/00 takes precedence)**
- M F15B 11/02 · Systems essentially incorporating special features for controlling the speed or ~~the~~ actuating force of an output member
- U F15B 11/04 · · for controlling the speed (F15B 11/024 takes precedence)
- M F15B 11/042 · · · by means in the feed line {, i.e. "meter in"}(F15B 11/046, F15B 11/05 take precedence)
- M F15B 11/044 · · · by means in the return line {, i.e. "meter out"}(F15B 11/046, F15B 11/05 take precedence)
- U F15B 11/05 · · · specially adapted to maintain constant speed, e.g. pressure-compensated, load-responsive {(F15B 11/161 takes precedence)}
- M F15B 11/055 · · · · {by adjusting the pump output or bypass (F15B 11/165 takes precedence)}
- U F15B 11/06 · involving features specific to the use of a compressible medium, e.g. air, steam
- M F15B 11/072 · · Combined pneumatic-hydraulic systems (F15B 11/032 takes precedence)
- U F15B 11/08 · with only one servomotor
- M F15B 11/10 · · in which the servomotor position is a function of the pressure {also pressure regulators as operating means for such systems, the device itself may be a position-indicating system}; Pressure regulators as operating means therefor}
- U F15B 11/12 · · providing distinct intermediate positions; with step-by-step action
- M F15B 11/121 · · · {providing distinct intermediate positions (F15B 11/13 takes precedence)}
- U F15B 11/13 · · · using {separate dosing} chambers of predetermined volume
- U F15B 11/16 · with two or more servomotors
- U F15B 11/161 · · {with sensing of servomotor demand or load}
- M F15B 11/168 · · · {with an isolator valve (duplicating valve), i.e. at least one load sense [LS] pressure is pressure being derived from a work port load sense pressure but is not a not being the work port load pressure itself}

Project: RP12222 (F41G)

- M F41G WEAPON SIGHTS; AIMING (optical aspects thereof [G02B](#))**
- WARNING**
 In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.
- 1. In this subclass, non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.*
2. The following IPC group is not in the CPC scheme. The subject matter for this IPC group is classified in the following CPC groups:
F41G 1/387 covered by [F41G 11/001](#) - [F41G 11/008](#)
- M F41G 1/00 Sighting devices (*{structurally associated with laser telemeters [F41G 3/065](#);* for indirect laying of fire [F41G 3/16](#); bombsights [F41G 3/24](#) ~~;~~ *structurally associated with laser telemeters [F41G 3/065](#); mounting tubular or beam shaped aiming devices on firearms [F41G 11/001](#)})***
- U F41G 1/32** • Night sights, e.g. luminescent (*{optical aspects of sighting devices [G02B 23/00](#), [G02B 27/00](#)}*)
- U F41G 1/34** • • combined with light source, e.g. spot light
- M F41G 1/35** • • • for illuminating the target ~~{, e.g. flash lights}~~
- C F41G 1/38** • Telescopic sights specially adapted for smallarms or ordnance (telescopic sights in general [G02B](#)); Supports or mountings therefor *{(Means for mounting sighting or aiming devices on firearms [F41G 11/001](#))}*
- WARNING**
Group [F41G 1/38](#) is impacted by reclassification into groups [F41G 1/384](#) - [F41G 1/3853](#) and [F41G 1/386](#) - [F41G 1/3865](#).
Groups [F41G 1/38](#), [F41G 1/384](#) - [F41G 1/3853](#) and [F41G 1/386](#) - [F41G 1/3865](#) should be considered in order to perform a complete search.
- U F41G 1/383** • • {Protection means therefor}
- N F41G 1/384** • • {Adjustment turrets, i.e. mechanisms having a rotary knob for adjusting the direction of the optical axis}
- WARNING**
Groups [F41G 1/384](#) - [F41G 1/3853](#) are incomplete pending reclassification of documents from group [F41G 1/38](#).
All groups listed in this Warning should be considered in order to perform a complete search.
- N F41G 1/3841** • • • {characterised by the provision for both coarse and fine adjustment}
- N F41G 1/3843** • • • {characterised by the indication of the rotational position of the turret}
- N F41G 1/3845** • • • {having means for allowing more than one revolution}
- N F41G 1/3846** • • • • {with indicator for the current revolution}
- N F41G 1/3847** • • • {characterised by locking means, i.e. for locking the turret in its rotational position}
- N F41G 1/3849** • • • {characterised by means for selectively engaging or disengaging the rotary knob portion to or from the adjustment mechanism}
- N F41G 1/3851** • • • {characterised by means for zeroing or sighting in}
- N F41G 1/3853** • • • {characterised by electric or electronic elements, e.g. position sensors or motors for rotating the knob}

- N F41G 1/386
- • {Reticles, i.e. aiming references visible to the user such as crosshairs}
- WARNING
Groups [F41G 1/386](#) - [F41G 1/3865](#) are incomplete pending reclassification of documents from group [F41G 1/38](#).
All groups listed in this Warning should be considered in order to perform a complete search.
- N F41G 1/3861
- • • {physical reticles, e.g. a set of wires or transparent elements provided with markings}
- N F41G 1/3863
- • • • {characterised by their mounting, e.g. adjustable in position}
- N F41G 1/3864
- • • • {characterised by the illumination of the reticle}
- N F41G 1/3865
- • • {projected or displayed reticles (projected reticles in reflecting sights [F41G 1/30](#))}
- F F41G 1/387
(Frozen)
- • Mounting telescopic sights on smallarms
- WARNING
Group [F41G 1/387](#) is no longer used for the classification of documents as of August 1, 2026. The content of this group is being reclassified into groups [F41G 11/001](#) - [F41G 11/008](#).
Groups [F41G 1/387](#) and [F41G 11/001](#) - [F41G 11/008](#) should be considered in order to perform a complete search.
- U F41G 3/00
- Aiming or laying means (sighting devices [F41G 1/00](#); determining direction, distance or velocity by use of radio or other waves [G01S](#); computers [G06](#); antennas [H01Q](#))**
- U F41G 3/06
- with rangefinder (rangefinders per se [G01C](#))
- M F41G 3/065
- • {Structural association of sighting- devices with laser telemeters}
- U F41G 7/00
- Direction control systems for self-propelled missiles (flight control [B64C](#), [G05D 1/00](#) {; counter-measures against guided missiles [F41H 11/02](#); spin-stabilised missiles [F42B 10/26](#)); self-propelled or guided missiles having direction control systems only installed aboard [F42B 15/01](#); rocket torpedoes [F42B 17/00](#); marine torpedoes or sea-mines having self-propulsion means [F42B 19/00](#); locating by use of radio or other waves [G01S](#); computing aspects [G06](#))**
- U F41G 7/20
- based on continuous observation of target position
- U F41G 7/30
- • Command link guidance systems {(homing [F41G 7/2206](#))}
- U F41G 7/301
- • • {Details}
- M F41G 7/306
- • • • {~~for transmitting guidance signals;~~ {for transmitting guidance signals ([F41G 7/308](#) takes precedence)}
- U F41G 11/00
- Details of sighting or aiming apparatus; Accessories {(tools for adjustment of sights [F41G 1/545](#))}**
- T F41G 11/001
- {Means for mounting ~~tubular or beam-shaped~~ sighting or aiming devices on firearms}
- WARNING
Groups [F41G 11/001](#), [F41G 11/002](#), [F41G 11/004](#), [F41G 11/005](#), [F41G 11/006](#), [F41G 11/007](#) and [F41G 11/008](#) are incomplete pending reclassification of documents from group [F41G 1/387](#).
All groups listed in this Warning should be considered in order to perform a complete search.

- C F41G 11/003 . . . {Mountings with a dove tail element, e.g. "Picatinny rail systems"}
- WARNING**
 Group F41G 11/003 is incomplete pending reclassification of documents from group F41G 1/387. Group F41G 11/003 is also impacted by reclassification into groups F41G 11/0032 - F41G 11/00327, F41G 11/0034 - F41G 11/00349 and F41G 11/0038 - F41G 11/00387.
 All groups listed in this Warning should be considered in order to perform a complete search.
- N F41G 11/0032 . . . {characterised by the mounting rail}
- WARNING**
 Groups F41G 11/0032 - F41G 11/00327 are incomplete pending reclassification of documents from groups F41G 1/387 and F41G 11/003. All groups listed in this Warning should be considered in order to perform a complete search.
- N F41G 11/00321 {Geometry thereof}
- N F41G 11/00323 {provided with additional functional elements (with recoil absorbing means F41G 11/002; power or data transfer F41G 11/0038)}
- N F41G 11/00324 {Flip-up sights}
- N F41G 11/00325 {Adjustable, e.g. with respect to the firearm barrel axis}
- N F41G 11/00327 {Arrangements for securing the rail to the firearm}
- N F41G 11/0034 {characterised by the rail-engaging mounting member}
- WARNING**
 Groups F41G 11/0034 - F41G 11/00349 are incomplete pending reclassification of documents from groups F41G 1/387 and F41G 11/003. All groups listed in this Warning should be considered in order to perform a complete search.
- N F41G 11/00341 {Clamping arrangements}
- N F41G 11/003412 {with the clamping provided by a threaded element}
- N F41G 11/003414 {with the clamping provided by an eccentric element}
- N F41G 11/003416 {with the clamping provided by an elastic element}
- N F41G 11/00343 {with a movement of the left or right rail-engaging components relative to each other during engaging or disengaging}
- N F41G 11/003431 {Translational movements}
- N F41G 11/003433 {Rotational movements}
- N F41G 11/003437 {Flexing movements}
- N F41G 11/00345 {characterised by the locking means in the longitudinal direction}
- N F41G 11/00347 {being integral with the mounted device}
- N F41G 11/00349 {adapters therefor, i.e. elements for coupling further rails to the mounting rail}
- N F41G 11/0038 {characterised by the data or power transfer between the rail and the rail-engaging mounting member}
- WARNING**
 Groups F41G 11/0038 - F41G 11/00387 are incomplete pending reclassification of documents from groups F41G 1/387 and F41G 11/003. All groups listed in this Warning should be considered in order to perform a complete search.
- N F41G 11/00381 {by optical means}

- N F41G 11/00384 {by electrical means}
 N F41G 11/00387 {by induction means}

Project: MP12952 (G01R)

- U G01R 31/00 Arrangements for testing electric properties; Arrangements for locating electric faults; Arrangements for electrical testing characterised by what is being tested not provided for elsewhere ({measuring superconductive properties [G01R 33/1238](#);} testing line transmission systems [H04B 3/46](#); testing or measuring semiconductors or solid state devices during manufacture {[H10P 74/00](#)})**

NOTE

Groups [G01R 31/08](#), [G01R 31/12](#), [G01R 31/327](#), [G01R 31/24](#), [G01R 31/26](#), [G01R 31/34](#), [G01R 31/36](#), [G01R 31/40](#), [G01R 31/44](#) take precedence over group [G01R 31/50](#).

- U G01R 31/08 . Locating faults in cables, transmission lines, or networks
 M G01R 31/10 . . by increasing destruction at fault, e.g. burning-in by using a pulse generator operating a special ~~program~~*programme*

Project: MP12952 (G06F)

- U G06F 9/00 Arrangements for program control, e.g. control units (program control for peripheral devices [G06F 13/10](#))**
- U G06F 9/06 . using stored programs, i.e. using an internal store of processing equipment to receive or retain programs
- U G06F 9/44 . . Arrangements for executing specific programs
- U G06F 9/455 . . . Emulation; Interpretation; Software simulation, e.g. virtualisation or emulation of application or operating system execution engines
- M G06F 9/45504 {Abstract machines for ~~programme~~*program* code execution, e.g. Java virtual machine [JVM], interpreters; ~~or~~ *emulators*}

Project: MP12952 (G09B)

- U G09B 7/00 Electrically-operated teaching apparatus or devices working with questions and answers (mechanically operated [G09B 3/00](#); computing arrangements [G06F](#))**
- U G09B 7/02 . of the type wherein the student is expected to construct an answer to the question which is presented or wherein the machine gives an answer to the question presented by a student
- M G09B 7/04 . . characterised by modifying the teaching ~~program~~*programme* in response to a wrong answer, e.g. repeating the question or supplying a further explanation
- U G09B 7/06 . of the multiple-choice answer-type, i.e. where a given question is provided with a series of answers and a choice has to be made from the answers
- M G09B 7/08 . . characterised by modifying the teaching ~~program~~*programme* in response to a wrong answer, e.g. repeating the question or supplying further information
- U G09B 7/10 . . wherein a set of answers is common to a plurality of questions
- M G09B 7/12 . . . characterised by modifying the teaching ~~program~~*programme* in response to a wrong answer, e.g. repeating the question or supplying further information

Project: RP12035 (H01F)

M H01F **MAGNETS; INDUCTANCES; TRANSFORMERS; SELECTION OF MATERIALS FOR THEIR MAGNETIC PROPERTIES (~~ceramics based on ferrites C04B 35/26; alloys G22C {-; construction of loading coils H01B}; loudspeakers, microphones, gramophone pick-ups or like acoustic electromechanical transducers H04R; thermomagnetic devices H10N 15/00)~~**

NOTE

{In this subclass, inductances and transformers are regarded as being "for power supply" if they are intended for this purpose even in systems operating at frequencies above 60 cycles/sec.}

WARNING

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

U H01F 1/00 **Magnets or magnetic bodies characterised by the magnetic materials therefor; Selection of materials for their magnetic properties**

NOTES

1. Attention is drawn to Note (3) after the title of section [C](#), which Note indicates to which version of the Periodic Table of chemical elements the CPC refers. In this group, the system used is the 8 group system indicated by Roman numerals in the Periodic Table thereunder.

2. {Group [H01F 1/0036](#) takes precedence over groups [H01F 1/09](#), [H01F 1/11](#), [H01F 1/20](#), [H01F 1/33](#) and [H01F 1/36](#).}

- U H01F 1/01 · of inorganic materials ([H01F 1/44](#) takes precedence)
- U H01F 1/03 · · characterised by their coercivity {([H01F 1/40](#) takes precedence)}
- U H01F 1/032 · · · of hard-magnetic materials
- U H01F 1/04 · · · · metals or alloys
- U H01F 1/047 · · · · · Alloys characterised by their composition

NOTE

{ In groups [H01F 1/053](#) - [H01F 1/059](#), an alloy is classified in the last appropriate place .}

- U H01F 1/053 · · · · · containing rare earth metals
- U H01F 1/055 · · · · · and magnetic transition metals, e.g. SmCo₅
- C H01F 1/057 · · · · · and IIIa elements, e.g. Nd₂Fe₁₄B

WARNING

Group [H01F 1/057](#) is impacted by reclassification into group [H01F 1/05712](#).

Groups [H01F 1/057](#) and [H01F 1/05712](#) should be considered in order to perform a complete search.

- C H01F 1/0571 · · · · · {in the form of particles, e.g. rapid quenched powders or ribbon flakes}

WARNING

Group [H01F 1/0571](#) is impacted by reclassification into group [H01F 1/05712](#).

Groups [H01F 1/0571](#) and [H01F 1/05712](#) should be considered in order to perform a complete search.

- N H01F 1/05712 {wherein the powder particle further includes one or more rare earth [RE], RE-T or Re-T-IIIa}
WARNING
 Group [H01F 1/05712](#) is incomplete pending reclassification of documents from groups [H01F 1/057](#), [H01F 1/0571](#), [H01F 1/0572](#), [H01F 1/0573](#), [H01F 1/0574](#), [H01F 1/0575](#), [H01F 1/0576](#), [H01F 1/0577](#), [H01F 1/0578](#) and [H01F 1/0579](#). All groups listed in this Warning should be considered in order to perform a complete search.

- C H01F 1/0572 {with a protective layer}
WARNING
 Group [H01F 1/0572](#) is impacted by reclassification into groups [H01F 1/05712](#) and [H01F 1/05723](#). Groups [H01F 1/0572](#), [H01F 1/05712](#) and [H01F 1/05723](#) should be considered in order to perform a complete search.

- N H01F 1/05723 {wherein the layer includes a rare earth [RE] alloy or a rare earth [RE] compound, e.g. Dy, Tb or Ho}
WARNING
 Group [H01F 1/05723](#) is incomplete pending reclassification of documents from group [H01F 1/0572](#). Groups [H01F 1/0572](#) and [H01F 1/05723](#) should be considered in order to perform a complete search.

- C H01F 1/0573 {obtained by reduction or by hydrogen decrepitation or embrittlement}
WARNING
 Group [H01F 1/0573](#) is impacted by reclassification into group [H01F 1/05712](#). Groups [H01F 1/0573](#) and [H01F 1/05712](#) should be considered in order to perform a complete search.

- C H01F 1/0574 {obtained by liquid dynamic compaction}
WARNING
 Group [H01F 1/0574](#) is impacted by reclassification into group [H01F 1/05712](#). Groups [H01F 1/0574](#) and [H01F 1/05712](#) should be considered in order to perform a complete search.

- C H01F 1/0575 {pressed, sintered or bonded together}
WARNING
 Group [H01F 1/0575](#) is impacted by reclassification into group [H01F 1/05712](#). Groups [H01F 1/0575](#) and [H01F 1/05712](#) should be considered in order to perform a complete search.

- C H01F 1/0576 {pressed, e.g. hot working}
WARNING
 Group [H01F 1/0576](#) is impacted by reclassification into group [H01F 1/05712](#). Groups [H01F 1/0576](#) and [H01F 1/05712](#) should be considered in order to perform a complete search.

- C H01F 1/0577 {sintered}

WARNING
 Group [H01F 1/0577](#) is impacted by reclassification into group [H01F 1/05712](#).
 Groups [H01F 1/0577](#) and [H01F 1/05712](#) should be considered in order to perform a complete search.

- C H01F 1/0578 {bonded together}

WARNING
 Group [H01F 1/0578](#) is impacted by reclassification into group [H01F 1/05712](#).
 Groups [H01F 1/0578](#) and [H01F 1/05712](#) should be considered in order to perform a complete search.

- C H01F 1/0579 {with exchange spin coupling between hard and soft nanophases, e.g. nanocomposite spring magnets}

WARNING
 Group [H01F 1/0579](#) is impacted by reclassification into group [H01F 1/05712](#).
 Groups [H01F 1/0579](#) and [H01F 1/05712](#) should be considered in order to perform a complete search.

- U H01F 1/12 . . . of soft-magnetic materials
- U H01F 1/34 . . . non-metallic substances, e.g. ferrites
- U H01F 1/342 {Oxides ([H01F 1/36](#) and [H01F 1/38](#) take precedence)}
- M H01F 1/344 {Ferrites, e.g. having a cubic spinel structure (~~X₂~~X²⁺O) (Y~~23~~+O~~3~~ Y₂³⁺O₃), e.g. magnetite Fe₃O₄}
- M H01F 1/346 {[(~~TO~~4X₃²⁺, Y₂³⁺)](~~TO~~4)-3₃] with T= Si, Al, Fe, Ga ([H01F 10/24](#) takes precedence; ~~Faraday rotators G02F 1/09~~)}

- U H01F 6/00 Superconducting magnets; Superconducting coils {(magnetic resonance assemblies using superconducting coil systems [G01R 33/3815](#))}**
- M H01F 6/005 . {~~Methods and Processes~~ or means for increasing the stored energy in superconductive coils by increments (~~flux pumps~~)}

- U H01F 7/00 Magnets (superconducting magnets [H01F 6/00](#); for separation of solid materials or fluids [B03C 1/00](#); for bench or like work-holders [B23B 31/28](#), [B23Q 3/00](#); work-holding devices [B25B 11/00](#); lifting magnets [B66C 1/00](#); {operating or controlling locks using permanent magnets [E05B 47/0038](#); devices for holding a wing, e.g. door or window, by magnetic or electromagnetic attraction [E05C 19/16](#); relieving load or bearings using magnetic means [F16C 39/06](#)}; for electric meters [G01R](#); for relays [H01H](#); {for electric discharge tubes [H01J](#), e.g. [H01J 3/24](#), [H01J 23/10](#), [H01J 29/68](#)}; for dynamo-electric machines [H02K](#))**
- U H01F 7/06 . Electromagnets; Actuators including electromagnets {(electric coils [H01F 5/00](#); devices for holding workpieces using electric force [B23Q 3/15](#); load-engaging elements for lifting articles electromagnetically [B66C 1/06](#); electromagnetic couplings [F16D 27/00](#); magnetic brakes [F16D 63/002](#); electromagnetically operated valves [F16K 11/24](#), [F16K 31/00](#); analysing materials by magnetic means [G01N 27/72](#), [G01N 27/80](#); electromagnets for winding mechanical clocks [G04C 1/02](#); electromagnetic relays [H01H 51/00](#); windings for salient poles of dynamo-electric machines [H02K 3/18](#); electromagnets for telegraphic communication [H04L](#); for arc lamps [H05B 31/28](#))}
- U H01F 7/08 . . with armatures

- M H01F 7/13 . . . characterised by pulling-force ~~characteristics~~ *characteristic*
- N H01F 7/132 . . . {Armatures actuated by current pulse, e.g. bistable actuators}
- N H01F 7/134 . . . {Actuators with two coils}
- U H01F 7/16 . . . Rectilinearly-movable armatures ([H01F 7/17](#) takes precedence)
- U H01F 7/1607 {Armatures entering the winding}
- U H01F 7/1623 {Armatures having T-form}
- D H01F 2007/163 {with axial bearing}
- <administratively transferred to [H01F 7/165](#) INV>
- U H01F 7/1638 {Armatures not entering the winding}
- U H01F 7/1646 {Armatures or stationary parts of magnetic circuit having permanent magnet}
- N H01F 7/165 {Means for guiding the movement of the armature with reduced friction, e.g. bearing or coating}
- U H01F 2007/1661 {Electromagnets or actuators with anti-stick disc}
- D H01F 2007/1669 {Armatures actuated by current pulse, e.g. bistable actuators}
- <administratively transferred to [H01F 7/132](#) INV>
- D H01F 2007/1692 {Electromagnets or actuators with two coils}
- <administratively transferred to [H01F 7/134](#) INV>
- U H01F 10/00 Thin magnetic films, e.g. of one-domain structure (magnetic record carriers [G11B 5/00](#); thin-film magnetic stores [G11C](#))**
- U H01F 10/08 . characterised by magnetic layers ({[H01F 10/32](#) takes precedence } ; applying thin magnetic films to substrates [H01F 41/14](#))
- U H01F 10/10 . . characterised by the composition
- U H01F 10/18 . . . being compounds
- U H01F 10/20 Ferrites
- U H01F 10/22 Orthoferrites {, e.g. RFeO₃ (R= rare earth element) with orthorhombic structure}
- M H01F 10/24 Garnets ~~{(in general [H01F 1/346](#); multilayers, e.g. superlattices [H01F 10/3209](#); applying magnetic garnet films to substrates by sputtering [H01F 41/186](#))}~~
- M H01F 17/00 Fixed inductances of the signal type ~~{(coils in general [H01F 5/00](#))}~~**
- D H01F 2017/0093 . {Common mode choke coil}
- <administratively transferred to [H01F 38/48](#) INV>
- U H01F 17/04 . with magnetic core
- U H01F 17/045 . . {with core of cylindrical geometry and coil wound along its longitudinal axis, i.e. rod or drum core}
- U H01F 19/00 Fixed transformers or mutual inductances of the signal type ([H01F 36/00](#) takes precedence)**
- U H01F 19/04 . Transformers or mutual inductances suitable for handling frequencies considerably beyond the audio range (resonant circuits [H03H](#))
- U H01F 19/08 . . Transformers having magnetic bias, e.g. for handling pulses
- D H01F 2019/085 . . . {Transformer for galvanic isolation}
- <administratively transferred to [H01F 38/50](#) INV>
- U H01F 21/00 Variable inductances or transformers of the signal type ([H01F 36/00](#) takes precedence)**

U	H01F 21/12	· discontinuously variable, e.g. tapped
C	H01F 27/00	Details of transformers or inductances, in general
		<i>WARNING</i>
		<i>Group H01F 27/00 is impacted by reclassification into group H01F 38/44. Groups H01F 27/00 and H01F 38/44 should be considered in order to perform a complete search.</i>
M	H01F 27/06	· Mounting, supporting, or suspending transformers, reactors, or choke coils {not being of the signal type}
D	H01F 2027/065	· · { Mounting on printed circuit boards <administratively transferred to H01F 27/065 INV>
N	H01F 27/065	· · { <i>Mounting on printed circuit boards</i> }
U	H01F 27/24	· Magnetic cores
U	H01F 27/245	· · made from sheets, e.g. grain-oriented (H01F 27/26 takes precedence)
M	H01F 27/2455	· · · {using <i>deformed sheets, e.g.</i> bent laminations}
U	H01F 27/28	· Coils; Windings; Conductive connections
U	H01F 27/2804	· · {Printed windings}
D	H01F 2027/2809	· · · { on stacked layers <administratively transferred to H01F 27/2809 INV>
N	H01F 27/2809	· · · { <i>on stacked layers</i> }
D	H01F 2027/2814	· · · { with only part of the coil or of the winding in the printed circuit board, e.g. the remaining coil or winding sections can be made of wires or sheets <administratively transferred to H01F 27/2814 INV>
N	H01F 27/2814	· · · { <i>with only part of the coil or of the winding in the printed circuit board, e.g. the remaining coil or winding sections can be made of wires or sheets</i> }
D	H01F 2027/2819	· · · { Planar transformers with printed windings, e.g. surrounded by two cores and to be mounted on printed circuit <administratively transferred to H01F 27/2819 INV>
N	H01F 27/2819	· · · { <i>Planar transformers with printed windings, e.g. surrounded by two cores and to be mounted on printed circuit</i> }
U	H01F 27/2823	· · {Wires (H01F 27/2866 takes precedence)}
U	H01F 27/2828	· · · {Construction of conductive connections, of leads}
U	H01F 27/32	· Insulating of coils, windings, or parts thereof
U	H01F 27/327	· · · {Encapsulating or impregnating (encapsulating coil and core H01F 27/022)}
U	H01F 27/34	· Special means for preventing or reducing unwanted electric or magnetic effects, e.g. no-load losses, reactive currents, harmonics, oscillations, leakage fields
D	H01F 2027/348	· · { Preventing eddy currents <administratively transferred to H01F 27/348 INV>
N	H01F 27/348	· · { <i>Preventing eddy currents</i> }
U	H01F 27/40	· Structural association with built-in electric component, e.g. fuse
U	H01F 27/402	· · {Association of measuring or protective means}
D	H01F 2027/404	· · · { Protective devices specially adapted for fluid filled transformers <administratively transferred to H01F 27/404 INV>
N	H01F 27/404	· · · { <i>Protective devices specially adapted for fluid filled transformers</i> }

- D H01F 2027/406 . . . {Temperature sensor or protection}
<administratively transferred to [H01F 27/406](#) INV>
- N H01F 27/406 . . . {Temperature sensor or protection}
- D H01F 2027/408 . . . {Association with diode or rectifier}
<administratively transferred to [H01F 27/408](#)>
- N H01F 27/408 . . . {Association with diode or rectifier}
- U H01F 29/00** **Variable transformers or inductances not covered by group [H01F 21/00](#) {(tap change devices [H01H 9/0005](#))}**
- M H01F 29/14 . . . with variable magnetic bias ~~{(amplitude modulation by means of variable impedance element [H03C 1/08](#)}; magnetic amplifiers [H03F](#); {circuits for automatic telephonic communication [H04M 3/00](#)}}~~
- D H01F 2029/143 . . . {with control winding for generating magnetic bias}
<administratively transferred to [H01F 29/143](#) INV>
- N H01F 29/143 . . . {with control winding for generating magnetic bias}
- C H01F 30/00** **Fixed transformers not covered by group [H01F 19/00](#)**
- WARNING**
*Group [H01F 30/00](#) is impacted by reclassification into groups [H01F 38/44](#) and [H01F 38/50](#).
Groups [H01F 30/00](#), [H01F 38/44](#) and [H01F 38/50](#) should be considered in order to perform a complete search.*
- C H01F 37/00** **Fixed inductances not covered by group [H01F 17/00](#)**
- WARNING**
*Group [H01F 37/00](#) is impacted by reclassification into groups [H01F 38/46](#) and [H01F 38/48](#).
Groups [H01F 37/00](#), [H01F 38/46](#) and [H01F 38/48](#) should be considered in order to perform a complete search.*
- C H01F 38/00** **Adaptations of transformers or inductances for specific applications or functions**
- WARNING**
*Group [H01F 38/00](#) is impacted by reclassification into groups [H01F 38/44](#), [H01F 38/46](#) and [H01F 38/48](#).
All groups listed in this Warning should be considered in order to perform a complete search.*
- U H01F 38/12 . . . Ignition, e.g. for IC engines
- M H01F 38/14 . . . Inductive couplings ~~{(for wireless supply or distribution of electric power using inductive coupling [H02J 50/10](#))}~~
- U H01F 38/20 . . . Instruments transformers
- U H01F 38/22 . . . for single phase AC
- U H01F 38/28 . . . Current transformers
- U H01F 38/30 . . . Constructions
- D H01F 2038/305 . . . {with toroidal magnetic core}
<administratively transferred to [H01F 38/305](#) INV>
- N H01F 38/305 . . . {with toroidal magnetic core}
- U H01F 38/42 . . . Flyback transformers
- U H01F 2038/426 . . . {with gap in transformer core}

- N H01F 38/44
- {Traction transformers for powering electric vehicles, e.g. trains, trams or metros}
- WARNING
Group [H01F 38/44](#) is incomplete pending reclassification of documents from groups [H01F 27/00](#), [H01F 30/00](#) and [H01F 38/00](#).
All groups listed in this Warning should be considered in order to perform a complete search.
- N H01F 38/46
- {Inductors specially adapted for electric vehicles, e.g. comprising electrically connected coils arranged on parallel core legs}
- WARNING
Group [H01F 38/46](#) is incomplete pending reclassification of documents from groups [H01F 37/00](#) and [H01F 38/00](#).
Groups [H01F 37/00](#), [H01F 38/00](#) and [H01F 38/46](#) should be considered in order to perform a complete search.
- N H01F 38/48
- {Common mode inductor for reducing or eliminating common mode noise on parallel lines}
- WARNING
Group [H01F 38/48](#) is incomplete pending reclassification of documents from groups [H01F 37/00](#) and [H01F 38/00](#).
Groups [H01F 37/00](#), [H01F 38/00](#) and [H01F 38/48](#) should be considered in order to perform a complete search.
- N H01F 38/50
- {Transformers for galvanic isolation}
- WARNING
Group [H01F 38/50](#) is incomplete pending reclassification of documents from group [H01F 30/00](#).
Groups [H01F 30/00](#) and [H01F 38/50](#) should be considered in order to perform a complete search.
- U H01F 41/00**
- Apparatus or processes specially adapted for manufacturing or assembling magnets, inductances or transformers; Apparatus or processes specially adapted for manufacturing materials characterised by their magnetic properties**
- NOTE
Group [H01F 41/30](#) takes precedence over groups [H01F 41/16](#) - [H01F 41/24](#) {, and over group [H01F 41/32](#).
This Note corresponds to IPC Note (1) relating to [H01F 41/16](#) - [H01F 41/24](#), [H01F 41/32](#).}
- U H01F 41/02
- for manufacturing cores, coils, or magnets ([H01F 41/14](#) takes precedence; for dynamo-electric machines [H02K 15/00](#))
- U H01F 41/0253
- • {for manufacturing permanent magnets}
- C H01F 41/0293
- • • {diffusion of rare earth elements, e.g. Tb, Dy or Ho, into permanent magnets}
- WARNING
Group [H01F 41/0293](#) is impacted by reclassification into groups [H01F 41/02931](#) and [H01F 41/02933](#).
Groups [H01F 41/0293](#), [H01F 41/02931](#) and [H01F 41/02933](#) should be considered in order to perform a complete search.

- N H01F 41/02931 {by direct coating, e.g. (electro)plating, spin-coating, dipping or coating with slurries}
- WARNING
Group [H01F 41/02931](#) is incomplete pending reclassification of documents from group [H01F 41/0293](#).
Groups [H01F 41/0293](#) and [H01F 41/02931](#) should be considered in order to perform a complete search.
- N H01F 41/02933 {by vapour deposition, e.g. sputtering, physical vapour deposition, or chemical vapour deposition}
- WARNING
Group [H01F 41/02933](#) is incomplete pending reclassification of documents from group [H01F 41/0293](#).
Groups [H01F 41/0293](#) and [H01F 41/02933](#) should be considered in order to perform a complete search.

Project: RP12864 (H10H)

- U H10H 29/00 **Integrated devices, or assemblies of multiple devices, comprising at least one light-emitting semiconductor element covered by group [H10H 20/00](#)**
- U H10H 29/80 . Constructional details
- NOTE
Classification is made in group [H10H 29/80](#) when the constructional detail is relevant to integrated devices or assemblies comprising multiple devices. When the constructional detail is relevant to individual devices, then classification is made in group [H10H 20/80](#).
- WARNING
Group [H10H 29/80](#) is incomplete pending reclassification of documents from group [H10H 20/80](#).
Groups [H10H 20/80](#) and [H10H 29/80](#) should be considered in order to perform a complete search.
- M H10H 29/962 . - {Stacked configurations of light-emitting semiconductor components or devices, the components or devices emitting at different wavelengths}
- WARNING
Group [H10H 29/962](#) is incomplete pending reclassification of documents from groups [H10H 29/14](#) ~~and~~, [H10H 29/142](#) ~~and~~ [H10W 90/00](#).
Groups [H10H 29/14](#), [H10H 29/142](#) ~~and~~, [H10H 29/962](#) ~~and~~ [H10W 90/00](#) should be considered in order to perform a complete search.

Project: MP12943 (H10P)

- M H10P **GENERIC PROCESSES OR APPARATUS FOR THE MANUFACTURE OR TREATMENT OF DEVICES COVERED BY CLASS [H10](#)**
- NOTES
1. This subclass covers processes or apparatus specially adapted for the manufacture or treatment of devices, or parts thereof, covered by class [H10](#), which are generically applicable to these devices.
 2. Attention is drawn to the following:
 - a. ~~a.~~ processes or apparatus specially adapted for the manufacture or treatment of devices, or parts thereof, which are covered by a single subclass of [H10B](#) - [H10N](#), are classified in the subclass in question. For example, the manufacture of a transistor is classified in subclass [H10D](#);

- b. ~~b.~~ processes or apparatus specially adapted for the manufacture or treatment of generic packages, interconnections, connectors or other constructional details of devices, which are covered by subclass [H10W](#), are classified in the subclass in question. For example, the formation of a copper pillar bump connector is classified in subclass [H10W](#).

3. In this subclass, the periodic system used is the I to VIII group system indicated in the Periodic Table under Note (3) of section C.

U H10P 50/00

Etching of wafers, substrates or parts of devices

WARNING

Group [H10P 50/00](#) is impacted by reclassification into groups [H10P 50/20](#), [H10P 50/24](#), [H10P 50/26](#), [H10P 50/60](#), [H10P 50/61](#), [H10P 50/64](#), [H10P 50/66](#), [H10P 52/00](#), [H10P 95/00](#), [H10P 95/02](#) and [H10P 95/70](#).

All groups listed in this Warning should be considered in order to perform a complete search.

U H10P 50/69

- {using masks for semiconductor materials}

M H10P 50/691

- • {for Group ~~V/IV~~ materials or Group III-V materials}

U H10P 52/00

Grinding, lapping or polishing of wafers, substrates or parts of devices

WARNING

Group [H10P 52/00](#) is incomplete pending reclassification of documents from group [H10P 50/00](#). Group [H10P 52/00](#) is incomplete pending reclassification of documents from group [H10P 50/00](#). Group [H10P 52/00](#) is also impacted by reclassification into groups [H10P 52/20](#), [H10P 52/40](#), [H10P 54/00](#) - [H10P 54/94](#) and [H10P 95/60](#).

All groups listed in this Warning should be considered in order to perform a complete search.

U H10P 52/40

- Chemomechanical polishing [CMP] (electrochemical mechanical polishing [H10P 52/20](#))

WARNING

Group [H10P 52/40](#) is incomplete pending reclassification of documents from group [H10P 52/00](#).

Groups [H10P 52/00](#) and [H10P 52/40](#) should be considered in order to perform a complete search.

U H10P 52/403

- • {of conductive or resistive materials}

M H10P 52/407

- • {of inorganic insulating materials}

WARNING

Group [H10P 52/407](#) is incomplete pending reclassification of documents from group [H10P 95/062](#).

Groups [H10P 95/062](#) and [H10P 52/407](#) should be considered in order to perform a complete search.

M H10P 52/409

- • {of organic insulating materials}

WARNING

Group [H10P 52/409](#) is incomplete pending reclassification of documents from group [H10P 95/08](#).

Groups [H10P 95/08](#) and [H10P 52/409](#) should be considered in order to perform a complete search.

Project: RP12864 (H10W)

M H10W **GENERIC PACKAGES, INTERCONNECTIONS, CONNECTORS OR OTHER CONSTRUCTIONAL DETAILS OF DEVICES COVERED BY CLASS [H10](#)**
NOTES

1. This subclass covers:

- a. packages of devices and parts of such packages;
- b. interconnections of devices in chips, wafers, substrates or packages;
- c. connectors of devices in packages;
- d. other constructional details of devices in chips, wafers, substrates or packages, e.g. isolation regions between components of integrated devices;
- e. detachable holders for supporting packaged chips in operation;
- f. the manufacture or treatment of aspects (a) - (e);

when aspects (a) - (e) are

- (1) applicable to devices covered by subclass [H10B](#);
- (2) applicable to devices covered by subclass [H10D](#), except for semiconductor bodies or electrodes thereof, which are covered by subgroups [H10D 62/00](#) or [H10D 64/00](#); or
- (3) generically applicable to devices covered by subclasses [H10B](#), [H10D](#), [H10F](#), [H10H](#), [H10K](#) or [H10N](#).

2. {In this subclass, the periodic system used is the I to VIII group system indicated in the Periodic Table under Note (3) of section [C](#).}

U H10W 70/00 **Package substrates; Interposers; Redistribution layers [RDL]**
WARNING

Groups [H10W 70/00](#), [H10W 70/01](#) and [H10W 70/04](#) are incomplete pending reclassification of documents from group [H10W 99/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

U H10W 70/01

- Manufacture or treatment

M H10W 70/05

- • of insulating or insulated package substrates, or of interposers, or of redistribution layers (manufacture or treatment of leadframes [H10W 70/04](#))

WARNING

Group [H10W 70/05](#) is incomplete pending reclassification of documents from group [H10W 99/00](#). Group [H10W 70/05](#) is also impacted by reclassification into groups [H10W 70/06](#), [H10W 70/08](#), [H10W 70/09](#), [H10W 70/092](#), ~~[H10W 70/093](#)~~, [H10W 70/095](#), [H10W 70/096](#), [H10W 70/097](#) and [H10W 70/098](#).

All groups listed in this Warning should be considered in order to perform a complete search.

M H10W 70/092

- • • {Adapting interconnections, e.g. making engineering ~~charges~~[changes](#), repairing}

WARNING

~~Groups~~[Group \[H10W 70/092\]\(#\) -is ~~H10W-70/098~~ are incomplete pending reclassification of documents from group \[H10W 70/05\]\(#\).](#)

Groups [H10W 70/05](#) and [H10W 70/092](#) ~~-H10W-70/098~~ should be considered in order to perform a complete search.

D H10W 70/093

- • • {~~Connecting or disconnecting other interconnections thereto or therefrom, e.g. connecting bond wires or bumps~~}

<administratively transferred to [H10W 70/099](#)>

- M H10W 70/095 . . . {of vias therein}
- WARNING**
*Group H10W 70/095 is incomplete pending reclassification of documents from group H10W 70/05.
 Groups H10W 70/05 and H10W 70/095 should be considered in order to perform a complete search.*
- M H10W 70/096 . . . {Cutting or separating}
- WARNING**
*Group H10W 70/096 is incomplete pending reclassification of documents from group H10W 70/05.
 Groups H10W 70/05 and H10W 70/096 should be considered in order to perform a complete search.*
- M H10W 70/097 . . . {Cleaning}
- WARNING**
*Group H10W 70/097 is incomplete pending reclassification of documents from group H10W 70/05.
 Groups H10W 70/05 and H10W 70/097 should be considered in order to perform a complete search.*
- M H10W 70/098 . . . {Applying pastes or inks, e.g. screen printing ([H10W 70/095](#) takes precedence)}
- WARNING**
*Group H10W 70/098 is incomplete pending reclassification of documents from group H10W 70/05.
 Groups H10W 70/05 and H10W 70/098 should be considered in order to perform a complete search.*

U H10W 72/00 Interconnections or connectors in packages

NOTE

In this group, bond pads in general, i.e. where the nature of a related connector is unspecified or generic to multiple types of connectors, are classified in group [H10W 72/90](#). Bond pads specially adapted for a specific type of connector are classified in the group covering the connector type. For example, bond pads specially adapted for wire connectors are classified in group [H10W 72/59](#).

WARNING

Group [H10W 72/00](#) is incomplete pending reclassification of documents from groups [H10W 20/40](#), [H10W 72/07232](#), [H10W 72/07233](#) and [H10W 72/07236](#). Group [H10W 72/00](#) is also impacted by reclassification into groups [H10W 72/20](#), [H10W 72/221](#), [H10W 72/222](#), [H10W 72/223](#), [H10W 72/224](#), [H10W 72/225](#), [H10W 72/227](#), [H10W 72/228](#), [H10W 72/231](#), [H10W 72/232](#), [H10W 72/234](#), [H10W 72/235](#), [H10W 72/237](#), [H10W 72/241](#), [H10W 72/242](#), [H10W 72/244](#), [H10W 72/245](#), [H10W 72/247](#), [H10W 72/248](#), [H10W 72/251](#), [H10W 72/252](#), [H10W 72/253](#), [H10W 72/255](#), [H10W 72/257](#), [H10W 72/2524](#), [H10W 72/2528](#), [H10W 72/261](#), [H10W 72/263](#), [H10W 72/265](#), [H10W 72/267](#), [H10W 72/281](#), [H10W 72/283](#), [H10W 72/285](#), [H10W 72/287](#), [H10W 72/30](#), [H10W 72/321](#), [H10W 72/322](#), [H10W 72/323](#), [H10W 72/324](#), [H10W 72/325](#), [H10W 72/327](#), [H10W 72/328](#), [H10W 72/331](#), [H10W 72/332](#), [H10W 72/334](#), [H10W 72/335](#), [H10W 72/337](#), [H10W 72/341](#), [H10W 72/342](#), [H10W 72/344](#), [H10W 72/345](#), [H10W 72/347](#), [H10W 72/348](#), [H10W 72/351](#), [H10W 72/352](#), [H10W 72/353](#), [H10W 72/354](#), [H10W 72/355](#), [H10W 72/357](#), [H10W 72/3524](#), [H10W 72/3528](#), [H10W 72/361](#), [H10W 72/365](#), [H10W 72/367](#), [H10W 72/381](#), [H10W 72/383](#), [H10W 72/385](#), [H10W 72/387](#), [H10W 72/40](#), [H10W 72/49](#), [H10W 72/50](#), [H10W 72/521](#), [H10W 72/522](#), [H10W 72/523](#), [H10W 72/524](#), [H10W 72/525](#),

[H10W 72/527](#), [H10W 72/528](#), [H10W 72/531](#), [H10W 72/533](#), [H10W 72/534](#),
[H10W 72/535](#), [H10W 72/537](#), [H10W 72/536](#), [H10W 72/5363](#), [H10W 72/5366](#),
[H10W 72/5368](#), [H10W 72/541](#), [H10W 72/543](#), [H10W 72/547](#), [H10W 72/5434](#),
[H10W 72/5438](#), [H10W 72/5473](#), [H10W 72/5475](#), [H10W 72/5445](#), [H10W 72/5449](#),
[H10W 72/5453](#), [H10W 72/551](#), [H10W 72/552](#), [H10W 72/5522](#), [H10W 72/5524](#),
[H10W 72/5525](#), [H10W 72/553](#), [H10W 72/555](#), [H10W 72/557](#), [H10W 72/5528](#),
[H10W 72/581](#), [H10W 72/583](#), [H10W 72/585](#), [H10W 72/60](#), [H10W 72/621](#),
[H10W 72/622](#), [H10W 72/623](#), [H10W 72/624](#), [H10W 72/625](#), [H10W 72/627](#),
[H10W 72/631](#), [H10W 72/634](#), [H10W 72/635](#), [H10W 72/637](#), [H10W 72/641](#),
[H10W 72/645](#), [H10W 72/647](#), [H10W 72/646](#), [H10W 72/642](#), [H10W 72/643](#),
[H10W 72/6478](#), [H10W 72/651](#), [H10W 72/652](#), [H10W 72/653](#), [H10W 72/6528](#),
[H10W 72/655](#), [H10W 72/657](#), [H10W 72/681](#), [H10W 72/683](#), [H10W 72/685](#) and
[H10W 72/691](#).

All groups listed in this Warning should be considered in order to perform a complete search.

U H10W 72/01

- {Manufacture or treatment}

WARNING

Group [H10W 72/01](#) is impacted by reclassification into groups [H10W 72/011](#),
[H10W 72/0112](#), [H10W 72/0113](#), [H10W 72/0115](#), [H10W 72/0116](#),
[H10W 72/012](#), [H10W 72/01204](#), [H10W 72/01208](#), [H10W 72/01212](#),
[H10W 72/01215](#), [H10W 72/01221](#), [H10W 72/01223](#), [H10W 72/01225](#),
[H10W 72/01231](#), [H10W 72/01233](#), [H10W 72/01235](#), [H10W 72/01236](#),
[H10W 72/01238](#), [H10W 72/01251](#), [H10W 72/01253](#), [H10W 72/01255](#),
[H10W 72/01257](#), [H10W 72/01261](#), [H10W 72/01265](#), [H10W 72/01271](#),
[H10W 72/013](#), [H10W 72/01304](#), [H10W 72/01308](#), [H10W 72/01315](#),
[H10W 72/01321](#), [H10W 72/01323](#), [H10W 72/01325](#), [H10W 72/01331](#),
[H10W 72/01333](#), [H10W 72/01335](#), [H10W 72/01336](#), [H10W 72/01338](#),
[H10W 72/01351](#), [H10W 72/01353](#), [H10W 72/01355](#), [H10W 72/01357](#),
[H10W 72/01359](#), [H10W 72/01361](#), [H10W 72/01365](#), [H10W 72/01371](#),
[H10W 72/014](#), [H10W 72/015](#), [H10W 72/01504](#), [H10W 72/01515](#),
[H10W 72/01551](#), [H10W 72/01553](#), [H10W 72/01561](#), [H10W 72/01565](#),
[H10W 72/01571](#), [H10W 72/016](#), [H10W 72/01604](#), [H10W 72/01615](#),
[H10W 72/01651](#), [H10W 72/01653](#), [H10W 72/01661](#), [H10W 72/01665](#),
[H10W 72/01671](#), [H10W 72/019](#), [H10W 72/01904](#), [H10W 72/01908](#),
[H10W 72/01921](#), [H10W 72/01923](#), [H10W 72/01925](#), [H10W 72/01931](#),
[H10W 72/01933](#), [H10W 72/01935](#), [H10W 72/01936](#), [H10W 72/01938](#),
[H10W 72/01951](#), [H10W 72/01953](#), [H10W 72/01955](#), [H10W 72/01961](#),
[H10W 72/01971](#) and [H10W 72/0198](#).

All groups listed in this Warning should be considered in order to perform a complete search.

U H10W 72/012

- {of bump connectors, dummy bumps or thermal bumps}

WARNING

Group [H10W 72/012](#) is incomplete pending reclassification of documents from group [H10W 72/01](#). Group [H10W 72/012](#) is also impacted by reclassification into groups [H10W 72/01204](#), [H10W 72/01208](#),
[H10W 72/01212](#), [H10W 72/01215](#), [H10W 72/01221](#), [H10W 72/01223](#),
[H10W 72/01225](#), [H10W 72/01231](#), [H10W 72/01233](#), [H10W 72/01235](#),
[H10W 72/01236](#), [H10W 72/01238](#), [H10W 72/01251](#), [H10W 72/01253](#),
[H10W 72/01255](#), [H10W 72/01257](#), [H10W 72/01261](#), [H10W 72/01265](#) and
[H10W 72/01271](#).

All groups listed in this Warning should be considered in order to perform a complete search.

M H10W 72/01212

- • {at a different location than on the final device, e.g. forming **as-prepeg solder preforms**}

- M H10W 72/20
- Bump connectors, e.g. solder bumps or copper pillars; Dummy bumps; Thermal bumps

WARNING

Group [H10W 72/20](#) is incomplete pending reclassification of documents from group [H10W 72/00](#). ~~Group~~ *Groups [H10W 72/20](#) - [H10W 72/709](#) are also incomplete pending reclassification from group [H10W 90/701](#). Group [H10W 72/20](#) is also impacted by reclassification into groups [H10W 72/221](#), [H10W 72/222](#), [H10W 72/223](#), [H10W 72/224](#), [H10W 72/225](#), [H10W 72/227](#), [H10W 72/228](#), [H10W 72/231](#), [H10W 72/232](#), [H10W 72/234](#), [H10W 72/235](#), [H10W 72/237](#), [H10W 72/241](#), [H10W 72/242](#), [H10W 72/244](#), [H10W 72/245](#), [H10W 72/247](#), [H10W 72/248](#), [H10W 72/251](#), [H10W 72/252](#), [H10W 72/253](#), [H10W 72/255](#), [H10W 72/257](#), [H10W 72/2524](#), [H10W 72/2528](#), [H10W 72/261](#), [H10W 72/263](#), [H10W 72/265](#), [H10W 72/267](#), [H10W 72/281](#), [H10W 72/283](#), [H10W 72/285](#), [H10W 72/287](#), [H10W 72/60](#), [H10W 72/621](#), [H10W 72/622](#), [H10W 72/623](#), [H10W 72/624](#), [H10W 72/625](#), [H10W 72/627](#), [H10W 72/631](#), [H10W 72/634](#), [H10W 72/635](#), [H10W 72/637](#), [H10W 72/641](#), [H10W 72/645](#), [H10W 72/647](#), [H10W 72/642](#), [H10W 72/643](#), [H10W 72/646](#), [H10W 72/6478](#), [H10W 72/651](#), [H10W 72/652](#), [H10W 72/653](#), [H10W 72/6528](#), [H10W 72/655](#), [H10W 72/657](#), [H10W 72/681](#), [H10W 72/683](#), [H10W 72/685](#) and [H10W 72/691](#).*

All groups listed in this Warning should be considered in order to perform a complete search.

- M H10W 72/90
- Bond pads, in general

WARNING

~~Group [H10W 72/90](#) is impacted by reclassification into groups [H10W 72/921](#), [H10W 72/922](#), [H10W 72/9223](#), [H10W 72/9226](#), [H10W 72/923](#), [H10W 72/9232](#), [H10W 72/924](#), [H10W 72/925](#), [H10W 72/926](#), [H10W 72/927](#), [H10W 72/931](#), [H10W 72/932](#), [H10W 72/934](#), [H10W 72/936](#), [H10W 72/941](#), [H10W 72/9413](#), [H10W 72/9415](#), [H10W 72/942](#), [H10W 72/944](#), [H10W 72/9445](#), [H10W 72/951](#), [H10W 72/952](#), [H10W 72/953](#), [H10W 72/957](#), [H10W 72/9524](#), [H10W 72/9528](#), [H10W 72/961](#), [H10W 72/963](#), [H10W 72/965](#), [H10W 72/967](#), [H10W 72/981](#), [H10W 72/983](#), [H10W 72/985](#) and [H10W 72/987](#).~~

~~All groups listed in this Warning should be considered in order to perform a complete search.~~

Groups [H10W 72/90](#) - [H10W 72/987](#) are incomplete pending reclassification of documents from group [H10W 90/701](#). Group [H10W 72/90](#) is also impacted by reclassification into groups [H10W 72/921](#), [H10W 72/922](#), [H10W 72/9223](#), [H10W 72/9226](#), [H10W 72/923](#), [H10W 72/9232](#), [H10W 72/924](#), [H10W 72/925](#), [H10W 72/926](#), [H10W 72/927](#), [H10W 72/931](#), [H10W 72/932](#), [H10W 72/934](#), [H10W 72/936](#), [H10W 72/941](#), [H10W 72/9413](#), [H10W 72/9415](#), [H10W 72/942](#), [H10W 72/944](#), [H10W 72/9445](#), [H10W 72/951](#), [H10W 72/952](#), [H10W 72/953](#), [H10W 72/957](#), [H10W 72/9524](#), [H10W 72/9528](#), [H10W 72/961](#), [H10W 72/963](#), [H10W 72/965](#), [H10W 72/967](#), [H10W 72/981](#), [H10W 72/983](#), [H10W 72/985](#) and [H10W 72/987](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- C H10W 90/00

Package configurations**NOTE**

This group covers:

- the relative positions of multiple chips within a single package, e.g. adjacent chips in a single encapsulation;

- the relative positions of multiple chips within multiple packages, e.g. one encapsulated chip on another encapsulated chip in a "package-on-package" configuration.

WARNING

Group [H10W 90/00](#) is impacted by reclassification into groups [H10B 80/00](#), [H10D 80/00](#), [H10D 80/20](#), [H10D 80/211](#), [H10D 80/213](#), [H10D 80/215](#), [H10D 80/231](#), [H10D 80/251](#), [H10D 80/30](#), [H10F 39/90](#), [H10F 39/95](#), [H10H 29/20](#), [H10H 29/24](#), [H10H 29/30](#), [H10H 29/32](#), [H10H 29/34](#), [H10H 29/345](#), [H10H 29/352](#), [H10H 29/362](#), [H10H 29/37](#), [H10H 29/39](#), [H10H 29/41](#), [H10H 29/45](#), [H10H 29/49](#), [H10H 29/962](#), [H10K 19/00](#), [H10K 19/10](#), [H10K 19/20](#), [H10K 19/201](#), [H10K 19/202](#), [H10K 19/80](#), [H10K 19/901](#), [H10K 39/601](#), [H10K 39/621](#), [H10K 59/90](#), [H10K 59/95](#), [H10K 65/00](#), ~~[H10N 19/00](#)~~, ~~[H10N 19/101](#)~~, ~~[H10N 39/00](#)~~, ~~[H10N 59/00](#)~~, ~~[H10N 69/00](#)~~, ~~[H10N 79/00](#)~~, ~~[H10N 89/00](#)~~, ~~[H10N 89/02](#)~~, [H10W 90/10](#), [H10W 90/15](#), [H10W 90/155](#), [H10W 90/20](#), [H10W 90/22](#), [H10W 90/231](#), [H10W 90/24](#), [H10W 90/26](#), [H10W 90/271](#), [H10W 90/275](#), [H10W 90/28](#), [H10W 90/284](#), [H10W 90/288](#), [H10W 90/291](#), [H10W 90/293](#), [H10W 90/295](#), [H10W 90/701](#), [H10W 90/721](#), [H10W 90/722](#), [H10W 90/723](#), [H10W 90/724](#), [H10W 90/725](#), [H10W 90/726](#), [H10W 90/727](#), [H10W 90/728](#), [H10W 90/729](#), [H10W 90/731](#), [H10W 90/732](#), [H10W 90/733](#), [H10W 90/734](#), [H10W 90/735](#), [H10W 90/736](#), [H10W 90/737](#), [H10W 90/738](#), [H10W 90/739](#), [H10W 90/751](#), [H10W 90/752](#), [H10W 90/753](#), [H10W 90/754](#), [H10W 90/755](#), [H10W 90/756](#), [H10W 90/757](#), [H10W 90/758](#), [H10W 90/759](#), [H10W 90/761](#), [H10W 90/762](#), [H10W 90/763](#), [H10W 90/764](#), [H10W 90/765](#), [H10W 90/766](#), [H10W 90/767](#), [H10W 90/768](#), [H10W 90/769](#), [H10W 90/791](#), [H10W 90/792](#), [H10W 90/794](#), [H10W 90/796](#), [H10W 90/798](#) and [H10W 90/811](#).

All groups listed in this Warning should be considered in order to perform a complete search.

C H10W 90/701

- {characterised by the relative positions of pads or connectors relative to package parts}

WARNING

Group [H10W 90/701](#) is incomplete pending reclassification of documents from group [H10W 90/00](#). Group [H10W 90/701](#) is also impacted by reclassification into groups [H10W 72/20 - H10W 72/709](#), [H10W 72/90 - H10W 72/987](#), [H10W 90/724](#), [H10W 90/725](#), [H10W 90/7295](#), [H10W 90/754](#), [H10W 90/755](#), [H10W 90/764](#) and [H10W 90/765](#).

All groups listed in this Warning should be considered in order to perform a complete search.